

Certain Amino-Pyridazines, Compositions Thereof, and Methods of Their Use

This application claims the benefit of U.S. Provisional Application Nos. 61/327,538, filed April 23, 2010, and 61/412,302, filed November 10, 2010, each of which is incorporated by reference in its entirety for all purposes.

The cytoskeleton of skeletal and cardiac muscle cells is unique compared to that of all other cells. It consists of a nearly crystalline array of closely packed cytoskeletal proteins called the sarcomere. The sarcomere is elegantly organized as an interdigitating array of thin and thick filaments. The thick filaments are composed of myosin, the motor protein responsible for transducing the chemical energy of ATP hydrolysis into force and directed movement. The thin filaments are composed of actin monomers arranged in a helical array. There are four regulatory proteins bound to the actin filaments, which allows the contraction to be modulated by calcium ions. An influx of intracellular calcium initiates muscle contraction; thick and thin filaments slide past each other driven by repetitive interactions of the myosin motor domains with the thin actin filaments.

Of the thirteen distinct classes of myosin in human cells, the myosin-II class is responsible for contraction of skeletal, cardiac, and smooth muscle. This class of myosin is significantly different in amino acid composition and in overall structure from myosin in the other twelve distinct classes. Myosin-II forms homo-dimers resulting in two globular head domains linked together by a long alpha-helical coiled-coiled tail to form the core of the sarcomere's thick filament. The globular heads have a catalytic domain where the actin binding and ATPase functions of myosin take place. Once bound to an actin filament, the release of phosphate (cf. ADP-Pi to ADP) signals a change in structural conformation of the catalytic domain that in turn alters the orientation of the light-chain binding lever arm domain that extends from the globular head; this movement is termed the powerstroke. This change in orientation of the myosin head in relationship to actin causes the thick filament of which it is a part to move with respect to the thin actin filament to which it is bound. Un-binding of the globular head from the actin filament (Ca^{2+} regulated) coupled with return of the catalytic domain and light chain to their starting

conformation/orientation completes the catalytic cycle, responsible for intracellular movement and muscle contraction.

Tropomyosin and troponin mediate the calcium effect on the interaction on actin and myosin. The troponin complex is comprised of three polypeptide chains: troponin C, which binds calcium ions; troponin I, which binds to actin; and troponin T, which binds to tropomyosin. The skeletal troponin-tropomyosin complex regulates the myosin binding sites extending over several actin units at once.

Troponin, a complex of the three polypeptides described above, is an accessory protein that is closely associated with actin filaments in vertebrate muscle. The troponin complex acts in conjunction with the muscle form of tropomyosin to mediate the Ca^{2+} dependency of myosin ATPase activity and thereby regulate muscle contraction. The troponin polypeptides T, I, and C, are named for their tropomyosin binding, inhibitory, and calcium binding activities, respectively. Troponin T binds to tropomyosin and is believed to be responsible for positioning the troponin complex on the muscle thin filament. Troponin I binds to actin, and the complex formed by troponins I and T, and tropomyosin inhibits the interaction of actin and myosin. Skeletal troponin C is capable of binding up to four calcium molecules. Studies suggest that when the level of calcium in the muscle is raised, troponin C exposes a binding site for troponin I, recruiting it away from actin. This causes the tropomyosin molecule to shift its position as well, thereby exposing the myosin binding sites on actin and stimulating myosin ATPase activity.

Human skeletal muscle is composed of different types of contractile fibers, classified by their myosin type and termed either slow or fast fibers. Table 1 summarizes the different proteins that make up these types of muscle.

Table 1

	Muscle Fiber Type	
	Fast skeletal	Slow Skeletal
Myosin Heavy Chain	Ila, (Ilb*), IIX/d	Cardiac β
Troponin I (TnI)	TnI fast SK	TnI slow SK
Troponin T (TnT)	TnT fast SK	TnT slow SK
Troponin C (TnC)	TnC fast SK	TnC slow/cardiac
Tropomyosin	TM- β / TM- α /TPM 3	TM- β / TM- α s

*MHC Ilb is not expressed in human muscle but is present in rodents and other mammals.

In healthy humans most skeletal muscles are composed of both fast and slow fibers, although the proportions of each vary with muscle type. Slow skeletal fibers, often called type I fibers, have more structural similarity with cardiac muscle and tend to be used more for fine and postural control. They usually have a greater oxidative capacity and are more resistant to fatigue with continued use. Fast skeletal muscle fibers, often called type II fibers, are classified into fast oxidative (IIa) and fast glycolytic (type IIX/d) fibers. While these muscle fibers have different myosin types, they share many components including the troponin and tropomyosin regulatory proteins. Fast skeletal muscle fibers tend to exert greater force but fatigue faster than slow skeletal muscle fibers and are functionally useful for acute, large scale movements such as rising from a chair or correcting falls.

Muscle contraction and force generation is controlled through nervous stimulation by innervating motor neurons. Each motor neuron may innervate

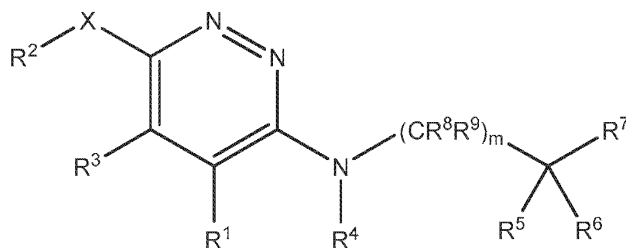
many (approximately 100-380) muscle fibers as a contractile whole, termed a motor unit. When a muscle is required to contract, motor neurons send stimuli as nerve impulses (action potentials) from the brain stem or spinal cord to each fiber within the motor unit. The contact region between nerve and muscle fibers is a specialized synapse called the neuromuscular junction (NMJ). Here, membrane depolarizing action potentials in the nerve are translated into an impulse in the muscle fiber through release of the neurotransmitter acetylcholine (ACh). ACh triggers a second action potential in the muscle that spreads rapidly along the fiber and into invaginations in the membrane, termed t-tubules. T-tubules are physically connected to Ca^{2+} stores within the sarcoplasmic reticulum (SR) of muscle via the dihydropyridine receptor (DHPR). Stimulation of the DHPR activates a second Ca^{2+} channel in the SR, the ryanodine receptor, to trigger the release of Ca^{2+} from stores in the SR to the muscle cytoplasm where it can interact with the troponin complex to initiate muscle contraction. If muscle stimulation stops, calcium is rapidly taken back up into the SR through the ATP dependent Ca^{2+} pump, SERCA.

Muscle function can become compromised in disease by many mechanisms. Examples include the frailty associated with old age (termed sarcopenia) and cachexia syndromes associated with diseases such as cancer, heart failure, chronic obstructive pulmonary disease (COPD), and chronic kidney disease/dialysis. Severe muscular dysfunction can arise from neuromuscular diseases (such as Amyotrophic Lateral Sclerosis (ALS), spinal muscular atrophy (SMA) and myasthenia gravis) or muscular myopathies (such as muscular dystrophies). Additionally, muscle function may become compromised due to rehabilitation-related deficits, such as those associated with recovery from surgery (e.g. post-surgical muscle weakness), prolonged bed rest, or stroke rehabilitation. Additional examples of diseases or conditions where muscle function becomes compromised include peripheral vascular disease (e.g., claudication), chronic fatigue syndrome, metabolic syndrome, and obesity.

Accordingly, there is a need for the development of new compounds that modulate skeletal muscle contractility. There remains a need for agents that exploit new mechanisms of action and which may have better outcomes

in terms of relief of symptoms, safety, and patient mortality, both short-term and long-term and an improved therapeutic index.

Provided is a compound of Formula I:



Formula I

or a pharmaceutically acceptable salt thereof, wherein R¹, R², R³, R⁴, R⁵, R⁶, R⁷, R⁸, R⁹, X and m are as defined herein.

Also provided is a pharmaceutically acceptable composition comprising a compound of Formula I, or a pharmaceutically acceptable salt thereof.

Also provided are methods for treating a disease or condition responsive to modulation of the contractility of the skeletal sarcomere, for example, modulation of the troponin complex of the fast skeletal muscle sarcomere through one or more of fast skeletal myosin, actin, tropomyosin, troponin C, troponin I, and troponin T, and fragments and isoforms thereof.

As used in the present specification, the following words and phrases are generally intended to have the meanings as set forth below, except to the extent that the context in which they are used indicates otherwise.

Throughout this application, unless the context indicates otherwise, references to a compound of Formula I includes all subgroups of Formula I defined herein, including all substructures, subgenera, preferences, embodiments, examples and particular compounds defined and/or described herein.

References to a compound of Formula I and subgroups thereof include ionic forms, polymorphs, pseudopolymorphs, amorphous forms, solvates, co-crystals, chelates, isomers, tautomers, oxides (e.g., N-oxides, S-oxides), esters, prodrugs, isotopes and/or protected forms thereof. "Crystalline form," "polymorph," and "novel form" may be used interchangeably herein, and are meant to include all crystalline and amorphous forms of the compound, including, for example, polymorphs, pseudopolymorphs, solvates (including

hydrates), co-crystals, unsolvated polymorphs (including anhydrides), conformational polymorphs, and amorphous forms, as well as mixtures thereof, unless a particular crystalline or amorphous form is referred to. In some embodiments, references to a compound of Formula I and subgroups thereof include polymorphs, solvates, co-crystals, isomers, tautomers and/or oxides thereof. In some embodiments, references to a compound of Formula I and subgroups thereof include polymorphs, salts, solvates, and/or co-crystals thereof. In some embodiments, references to a compound of Formula I and subgroups thereof include isomers, tautomers and/or oxides thereof. In some embodiments, references to a compound of Formula I and subgroups thereof include solvates thereof. Similarly, the term "salts" includes solvates of salts of compounds.

By "optional" or "optionally" is meant that the subsequently described event or circumstance may or may not occur, and that the description includes instances where the event or circumstance occurs and instances in which it does not. For example, "optionally substituted alkyl" encompasses both "alkyl" and "substituted alkyl" as defined herein. It will be understood by those skilled in the art, with respect to any group containing one or more substituents, that such groups are not intended to introduce any substitution or substitution patterns that are sterically impractical, synthetically non-feasible, and/or inherently unstable.

When a range of values is given (e.g., C₁₋₆ alkyl), each value within the range as well as all intervening ranges are included. For example, "C₁₋₆ alkyl" includes C₁, C₂, C₃, C₄, C₅, C₆, C₁₋₆, C₂₋₆, C₃₋₆, C₄₋₆, C₅₋₆, C₁₋₅, C₂₋₅, C₃₋₅, C₄₋₅, C₁₋₄, C₂₋₄, C₃₋₄, C₁₋₃, C₂₋₃, and C₁₋₂ alkyl.

When a moiety is defined as being optionally substituted, it may be substituted as itself or as part of another moiety. For example, if R^x is defined as "C₁₋₆ alkyl or OC₁₋₆ alkyl, wherein C₁₋₆ alkyl is optionally substituted with halogen", then both the C₁₋₆ alkyl group alone and the C₁₋₆ alkyl that makes up part of the OC₁₋₆ alkyl group may be substituted with halogen.

"Alkyl" encompasses straight and branched carbon chains having the indicated number of carbon atoms, for example, from 1 to 20 carbon atoms, or 1 to 8 carbon atoms, or 1 to 6 carbon atoms. For example, C₁₋₆ alkyl encompasses both straight and branched chain alkyl of from 1 to 6 carbon

atoms. When an alkyl residue having a specific number of carbons is named, all branched and straight chain versions having that number of carbons are intended to be encompassed; thus, for example, "propyl" includes n-propyl and isopropyl; and "butyl" includes n-butyl, sec-butyl, isobutyl and t-butyl. Examples of alkyl groups include, but are not limited to, methyl, ethyl, propyl, isopropyl, n-butyl, sec-butyl, tert-butyl, pentyl, 2-pentyl, 3-pentyl, isopentyl, neopentyl, hexyl, 2-hexyl, 3-hexyl, and 3-methylpentyl. "Lower alkyl" refers to alkyl groups having 1 to 6 carbons.

"Haloalkyl" includes straight and branched carbon chains having the indicated number of carbon atoms (e.g., 1 to 6 carbon atoms) substituted with at least one halogen atom. In instances wherein the haloalkyl group contains more than one halogen atom, the halogens may be the same (e.g., dichloromethyl) or different (e.g., chlorofluoromethyl). Examples of haloalkyl groups include, but are not limited to, chloromethyl, dichloromethyl, trichloromethyl, fluoromethyl, difluoromethyl, trifluoromethyl, chlorofluoromethyl, 2-fluoroethyl, 2,2-difluoroethyl, 2,2,2-trifluoroethyl, 1,2-difluoroethyl, 2-chloroethyl, 2,2-dichloroethyl, 2,2,2-trichloroethyl, 1,2-dichloroethyl, pentachloroethyl, and pentafluoroethyl.

"Alkenyl" refers to an unsaturated branched or straight-chain alkyl group having the indicated number of carbon atoms (e.g., 2 to 8, or 2 to 6 carbon atoms) and at least one carbon-carbon double bond derived by the removal of one molecule of hydrogen from adjacent carbon atoms of the corresponding alkyl. The group may be in either the cis or trans configuration (Z or E configuration) about the double bond(s). Alkenyl groups include, but are not limited to, ethenyl, propenyl (e.g., prop-1-en-1-yl, prop-1-en-2-yl, prop-2-en-1-yl (allyl), prop-2-en-2-yl), and butenyl (e.g., but-1-en-1-yl, but-1-en-2-yl, 2-methyl-prop-1-en-1-yl, but-2-en-1-yl, but-2-en-1-yl, but-2-en-2-yl, buta-1,3-dien-1-yl, buta-1,3-dien-2-yl). "Lower alkenyl" refers to alkenyl groups having 2 to 6 carbons.

"Alkynyl" refers to an unsaturated branched or straight-chain alkyl group having the indicated number of carbon atoms (e.g., 2 to 8 or 2 to 6 carbon atoms) and at least one carbon-carbon triple bond derived by the removal of two molecules of hydrogen from adjacent carbon atoms of the corresponding alkyl. Alkynyl groups include, but are not limited to, ethynyl,

propynyl (e.g., prop-1-yn-1-yl, prop-2-yn-1-yl) and butynyl (e.g., but-1-yn-1-yl, but-1-yn-3-yl, but-3-yn-1-yl). "Lower alkynyl" refers to alkynyl groups having 2 to 6 carbons.

"Cycloalkyl" indicates a non-aromatic, fully saturated carbocyclic ring having the indicated number of carbon atoms, for example, 3 to 10, or 3 to 8, or 3 to 6 ring carbon atoms. Cycloalkyl groups may be monocyclic or polycyclic (e.g., bicyclic, tricyclic). Examples of cycloalkyl groups include cyclopropyl, cyclobutyl, cyclopentyl, cyclopentenyl and cyclohexyl, as well as bridged and caged ring groups (e.g., norbornane, bicyclo[2.2.2]octane). In addition, one ring of a polycyclic cycloalkyl group may be aromatic, provided the polycyclic cycloalkyl group is bound to the parent structure via a non-aromatic carbon. For example, a 1,2,3,4-tetrahydronaphthalen-1-yl group (wherein the moiety is bound to the parent structure via a non-aromatic carbon atom) is a cycloalkyl group, while 1,2,3,4-tetrahydronaphthalen-5-yl (wherein the moiety is bound to the parent structure via an aromatic carbon atom) is not considered a cycloalkyl group. Examples of polycyclic cycloalkyl groups consisting of a cycloalkyl group fused to an aromatic ring are described below.

"Cycloalkenyl" indicates a non-aromatic carbocyclic ring, containing the indicated number of carbon atoms (e.g., 3 to 10, or 3 to 8, or 3 to 6 ring carbon atoms) and at least one carbon-carbon double bond derived by the removal of one molecule of hydrogen from adjacent carbon atoms of the corresponding cycloalkyl. Cycloalkenyl groups may be monocyclic or polycyclic (e.g., bicyclic, tricyclic). Examples of cycloalkenyl groups include cyclopropenyl, cyclobutenyl, cyclopentenyl, cyclopentadienyl, and cyclohexenyl, as well as bridged and caged ring groups (e.g., bicyclo[2.2.2]octene). In addition, one ring of a polycyclic cycloalkenyl group may be aromatic, provided the polycyclic alkenyl group is bound to the parent structure via a non-aromatic carbon atom. For example, inden-1-yl (wherein the moiety is bound to the parent structure via a non-aromatic carbon atom) is considered a cycloalkenyl group, while inden-4-yl (wherein the moiety is bound to the parent structure via an aromatic carbon atom) is not considered a cycloalkenyl group. Examples of polycyclic cycloalkenyl groups consisting of a cycloalkenyl group fused to an aromatic ring are described below.

"Aryl" indicates an aromatic carbon ring having the indicated number of carbon atoms, for example, 6 to 12 or 6 to 10 carbon atoms. Aryl groups may be monocyclic or polycyclic (e.g., bicyclic, tricyclic). In some instances, both rings of a polycyclic aryl group are aromatic (e.g., naphthyl). In other instances, polycyclic aryl groups may include a non-aromatic ring (e.g., cycloalkyl, cycloalkenyl, heterocycloalkyl, heterocycloalkenyl) fused to an aromatic ring, provided the polycyclic aryl group is bound to the parent structure via an atom in the aromatic ring. Thus, a 1,2,3,4-tetrahydronaphthalen-5-yl group (wherein the moiety is bound to the parent structure via an aromatic carbon atom) is considered an aryl group, while 1,2,3,4-tetrahydronaphthalen-1-yl (wherein the moiety is bound to the parent structure via a non-aromatic carbon atom) is not considered an aryl group. Similarly, a 1,2,3,4-tetrahydroquinolin-8-yl group (wherein the moiety is bound to the parent structure via an aromatic carbon atom) is considered an aryl group, while 1,2,3,4-tetrahydroquinolin-1-yl group (wherein the moiety is bound to the parent structure via a non-aromatic nitrogen atom) is not considered an aryl group. However, the term "aryl" does not encompass or overlap with "heteroaryl", as defined herein, regardless of the point of attachment (e.g., both quinolin-5-yl and quinolin-2-yl are heteroaryl groups). In some instances, aryl is phenyl or naphthyl. In certain instances, aryl is phenyl. Additional examples of aryl groups comprising an aromatic carbon ring fused to a non-aromatic ring are described below.

"Alkyl" refers to a residue having the indicated number of carbon atoms (e.g., 7 to 12 or 7 to 10 carbon atoms) in which an aryl moiety is attached to the parent structure via an alkyl residue. The alkyl residue may be straight-chain or branched. Examples include, benzyl, phenethyl and 1-phenylethyl.

"Heteroaryl" indicates an aromatic ring containing the indicated number of atoms (e.g., 5 to 12, or 5 to 10 membered heteroaryl) made up of one or more heteroatoms (e.g., 1, 2, 3 or 4 heteroatoms) selected from N, O and S and with the remaining ring atoms being carbon. Heteroaryl groups do not contain adjacent S and O atoms. In some embodiments, the total number of S and O atoms in the heteroaryl group is not more than 2. In some embodiments, the total number of S and O atoms in heteroaryl group is not

more than 1. Unless otherwise indicated, heteroaryl groups may be bound to the parent structure by a carbon or nitrogen atom, as valency permits. For example, "pyridyl" includes 2-pyridyl, 3-pyridyl and 4-pyridyl groups, and "pyrrolyl" includes 1-pyrrolyl, 2-pyrrolyl and 3-pyrrolyl groups. When nitrogen is present in a heteroaryl ring, it may, where the nature of the adjacent atoms and groups permits, exist in an oxidized state (i.e., N^+-O^-). Additionally, when sulfur is present in a heteroaryl ring, it may, where the nature of the adjacent atoms and groups permits, exist in an oxidized state (i.e., S^+-O^- or SO_2). Heteroaryl groups may be monocyclic or polycyclic (e.g., bicyclic, tricyclic).

In some instances, a heteroaryl group is monocyclic. Examples include pyrrole, pyrazole, imidazole, triazole (e.g., 1,2,3-triazole, 1,2,4-triazole, 1,2,4-triazole), tetrazole, furan, isoxazole, oxazole, oxadiazole (e.g., 1,2,3-oxadiazole, 1,2,4-oxadiazole, 1,3,4-oxadiazole), thiophene, isothiazole, thiazole, thiadiazole (e.g., 1,2,3-thiadiazole, 1,2,4-thiadiazole, 1,3,4-thiadiazole), pyridine, pyridazine, pyrimidine, pyrazine, triazine (e.g., 1,2,4-triazine, 1,3,5-triazine) and tetrazine.

In some instances, both rings of a polycyclic heteroaryl group are aromatic. Examples include indole, isoindole, indazole, benzoimidazole, benzotriazole, benzofuran, benzoxazole, benzoisoxazole, benzoxadiazole, benzothiophene, benzothiazole, benzoisothiazole, benzothiadiazole, 1H-pyrrolo[2,3-b]pyridine, 1H-pyrazolo[3,4-b]pyridine, 3H-imidazo[4,5-b]pyridine, 3H-[1,2,3]triazolo[4,5-b]pyridine, 1H-pyrrolo[3,2-b]pyridine, 1H-pyrazolo[4,3-b]pyridine, 1H-imidazo[4,5-b]pyridine, 1H-[1,2,3]triazolo[4,5-b]pyridine, 1H-pyrrolo[2,3-c]pyridine, 1H-pyrazolo[3,4-c]pyridine, 3H-imidazo[4,5-c]pyridine, 3H-[1,2,3]triazolo[4,5-c]pyridine, 1H-pyrrolo[3,2-c]pyridine, 1H-pyrazolo[4,3-c]pyridine, 1H-imidazo[4,5-c]pyridine, 1H-[1,2,3]triazolo[4,5-c]pyridine, furo[2,3-b]pyridine, oxazolo[5,4-b]pyridine, isoxazolo[5,4-b]pyridine, [1,2,3]oxadiazolo[5,4-b]pyridine, furo[3,2-b]pyridine, oxazolo[4,5-b]pyridine, isoxazolo[4,5-b]pyridine, [1,2,3]oxadiazolo[4,5-b]pyridine, furo[2,3-c]pyridine, oxazolo[5,4-c]pyridine, isoxazolo[5,4-c]pyridine, [1,2,3]oxadiazolo[5,4-c]pyridine, furo[3,2-c]pyridine, oxazolo[4,5-c]pyridine, isoxazolo[4,5-c]pyridine, [1,2,3]oxadiazolo[4,5-c]pyridine, thieno[2,3-b]pyridine, thiazolo[5,4-b]pyridine, isothiazolo[5,4-b]pyridine, [1,2,3]thiadiazolo[5,4-b]pyridine, thieno[3,2-b]pyridine, thiazolo[4,5-b]pyridine, isothiazolo[4,5-b]pyridine,

[1,2,3]thiadiazolo[4,5-b]pyridine, thieno[2,3-c]pyridine, thiazolo[5,4-c]pyridine, isothiazolo[5,4-c]pyridine, [1,2,3]thiadiazolo[5,4-c]pyridine, thieno[3,2-c]pyridine, thiazolo[4,5-c]pyridine, isothiazolo[4,5-c]pyridine, [1,2,3]thiadiazolo[4,5-c]pyridine, quinoline, isoquinoline, cinnoline, quinazoline, quinoxaline, phthalazine, naphthyridine (e.g., 1,8-naphthyridine, 1,7-naphthyridine, 1,6-naphthyridine, 1,5-naphthyridine, 2,7-naphthyridine, 2,6-naphthyridine), imidazo[1,2-a]pyridine, 1H-pyrazolo[3,4-d]thiazole, 1H-pyrazolo[4,3-d]thiazole and imidazo[2,1-b]thiazole.

In other instances, polycyclic heteroaryl groups may include a non-aromatic ring (e.g., cycloalkyl, cycloalkenyl, heterocycloalkyl, heterocycloalkenyl) fused to a heteroaryl ring, provided the polycyclic heteroaryl group is bound to the parent structure via an atom in the aromatic ring. For example, a 4,5,6,7-tetrahydrobenzo[d]thiazol-2-yl group (wherein the moiety is bound to the parent structure via an aromatic carbon atom) is considered a heteroaryl group, while 4,5,6,7-tetrahydrobenzo[d]thiazol-5-yl (wherein the moiety is bound to the parent structure via a non-aromatic carbon atom) is not considered a heteroaryl group. Examples of polycyclic heteroaryl groups consisting of a heteroaryl ring fused to a non-aromatic ring are described below.

"Heterocycloalkyl" indicates a non-aromatic, fully saturated ring having the indicated number of atoms (e.g., 3 to 10, or 3 to 7, membered heterocycloalkyl) made up of one or more heteroatoms (e.g., 1, 2, 3 or 4 heteroatoms) selected from N, O and S and with the remaining ring atoms being carbon. Heterocycloalkyl groups may be monocyclic or polycyclic (e.g., bicyclic, tricyclic). Examples of heterocycloalkyl groups include oxiranyl, aziridiny, azetidiny, pyrrolidiny, imidazolidiny, pyrazolidiny, piperidiny, piperaziny, morpholiny and thiomorpholiny. When nitrogen is present in a heterocycloalkyl ring, it may, where the nature of the adjacent atoms and groups permits, exist in an oxidized state (i.e., N^+-O^-). Examples include piperidiny N-oxide and morpholiny-N-oxide. Additionally, when sulfur is present in a heterocycloalkyl ring, it may, where the nature of the adjacent atoms and groups permits, exist in an oxidized state (i.e., S^+-O^- or $-SO_2-$). Examples include thiomorpholine S-oxide and thiomorpholine S,S-dioxide. In addition, one ring of a polycyclic heterocycloalkyl group may be aromatic

(e.g., aryl or heteroaryl), provided the polycyclic heterocycloalkyl group is bound to the parent structure via a non-aromatic carbon or nitrogen atom. For example, a 1,2,3,4-tetrahydroquinolin-1-yl group (wherein the moiety is bound to the parent structure via a non-aromatic nitrogen atom) is considered a heterocycloalkyl group, while 1,2,3,4-tetrahydroquinolin-8-yl group (wherein the moiety is bound to the parent structure via an aromatic carbon atom) is not considered a heterocycloalkyl group. Examples of polycyclic heterocycloalkyl groups consisting of a heterocycloalkyl group fused to an aromatic ring are described below.

"Heterocycloalkenyl" indicates a non-aromatic ring having the indicated number of atoms (e.g., 3 to 10, or 3 to 7, membered heterocycloalkyl) made up of one or more heteroatoms (e.g., 1, 2, 3 or 4 heteroatoms) selected from N, O and S and with the remaining ring atoms being carbon, and at least one double bond derived by the removal of one molecule of hydrogen from adjacent carbon atoms, adjacent nitrogen atoms, or adjacent carbon and nitrogen atoms of the corresponding heterocycloalkyl. Heterocycloalkenyl groups may be monocyclic or polycyclic (e.g., bicyclic, tricyclic). When nitrogen is present in a heterocycloalkenyl ring, it may, where the nature of the adjacent atoms and groups permits, exist in an oxidized state (i.e., N^+-O^-). Additionally, when sulfur is present in a heterocycloalkenyl ring, it may, where the nature of the adjacent atoms and groups permits, exist in an oxidized state (i.e., S^+-O^- or $-SO_2-$). Examples of heterocycloalkenyl groups include dihydrofuranyl (e.g., 2,3-dihydrofuranyl, 2,5-dihydrofuranyl), dihydrothiophenyl (e.g., 2,3-dihydrothiophenyl, 2,5-dihydrothiophenyl), dihydropyrrolyl (e.g., 2,3-dihydro-1H-pyrrolyl, 2,5-dihydro-1H-pyrrolyl), dihydroimidazolyl (e.g., 2,3-dihydro-1H-imidazolyl, 4,5-dihydro-1H-imidazolyl), pyranyl, dihydropyranyl (e.g., 3,4-dihydro-2H-pyranyl, 3,6-dihydro-2H-pyranyl), tetrahydropyridinyl (e.g., 1,2,3,4-tetrahydropyridinyl, 1,2,3,6-tetrahydropyridinyl) and dihydropyridine (e.g., 1,2-dihydropyridine, 1,4-dihydropyridine). In addition, one ring of a polycyclic heterocycloalkenyl group may be aromatic (e.g., aryl or heteroaryl), provided the polycyclic heterocycloalkenyl group is bound to the parent structure via a non-aromatic carbon or nitrogen atom. For example, a 1,2-dihydroquinolin-1-yl group (wherein the moiety is bound to the parent structure via a non-aromatic nitrogen atom) is considered a

heterocycloalkenyl group, while 1,2-dihydroquinolin-8-yl group (wherein the moiety is bound to the parent structure via an aromatic carbon atom) is not considered a heterocycloalkenyl group. Examples of polycyclic heterocycloalkenyl groups consisting of a heterocycloalkenyl group fused to an aromatic ring are described below.

Examples of polycyclic rings consisting of an aromatic ring (e.g., aryl or heteroaryl) fused to a non-aromatic ring (e.g., cycloalkyl, cycloalkenyl, heterocycloalkyl, heterocycloalkenyl) include indenyl, 2,3-dihydro-1H-indenyl, 1,2,3,4-tetrahydronaphthalenyl, benzo[1,3]dioxolyl, tetrahydroquinolyl, 2,3-dihydrobenzo[1,4]dioxinyl, indolyl, isoindolyl, 2,3-dihydro-1H-indazolyl, 2,3-dihydro-1H-benzo[d]imidazolyl, 2,3-dihydrobenzofuranyl, 1,3-dihydroisobenzofuranyl, 1,3-dihydrobenzo[c]isoxazolyl, 2,3-dihydrobenzo[d]isoxazolyl, 2,3-dihydrobenzo[d]oxazolyl, 2,3-dihydrobenzo[b]thiophenyl, 1,3-dihydrobenzo[c]thiophenyl, 1,3-dihydrobenzo[c]isothiazolyl, 2,3-dihydrobenzo[d]isothiazolyl, 2,3-dihydrobenzo[d]thiazolyl, 5,6-dihydro-4H-cyclopenta[d]thiazolyl, 4,5,6,7-tetrahydrobenzo[d]thiazolyl, 5,6-dihydro-4H-pyrrolo[3,4-d]thiazolyl, 4,5,6,7-tetrahydrothiazolo[5,4-c]pyridinyl, indolin-2-one, indolin-3-one, isoindolin-1-one, 1,2-dihydroindazol-3-one, 1H-benzo[d]imidazol-2(3H)-one, benzofuran-2(3H)-one, benzofuran-3(2H)-one, isobenzofuran-1(3H)-one, benzo[c]isoxazol-3(1H)-one, benzo[d]isoxazol-3(2H)-one, benzo[d]oxazol-2(3H)-one, benzo[b]thiophen-2(3H)-one, benzo[b]thiophen-3(2H)-one, benzo[c]thiophen-1(3H)-one, benzo[c]isothiazol-3(1H)-one, benzo[d]isothiazol-3(2H)-one, benzo[d]thiazol-2(3H)-one, 4,5-dihydropyrrolo[3,4-d]thiazol-6-one, 1,2-dihydropyrazolo[3,4-d]thiazol-3-one, quinolin-4(3H)-one, quinazolin-4(3H)-one, quinazoline-2,4(1H,3H)-dione, quinoxalin-2(1H)-one, quinoxaline-2,3(1H,4H)-dione, cinnolin-4(3H)-one, pyridin-2(1H)-one, pyrimidin-2(1H)-one, pyrimidin-4(3H)-one, pyridazin-3(2H)-one, 1H-pyrrolo[3,2-b]pyridin-2(3H)-one, 1H-pyrrolo[3,2-c]pyridin-2(3H)-one, 1H-pyrrolo[2,3-c]pyridin-2(3H)-one, 1H-pyrrolo[2,3-b]pyridin-2(3H)-one, 1,2-dihydropyrazolo[3,4-d]thiazol-3-one and 4,5-dihydropyrrolo[3,4-d]thiazol-6-one. As discussed herein, whether each ring is considered an aryl, heteroaryl, cycloalkyl, cycloalkenyl, heterocycloalkyl or heterocycloalkenyl group is determined by the atom through which the moiety is bound to the

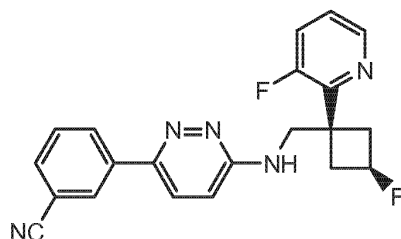
parent structure.

"Halogen" or "halo" refers to fluorine, chlorine, bromine or iodine.

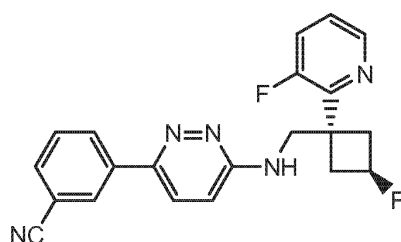
"Isomers" are different compounds that have the same molecular formula. "Stereoisomers" are isomers that differ only in the way the atoms are arranged in space. "Enantiomers" are stereoisomers that are non-superimposable mirror images of each other. A 1:1 mixture of a pair of enantiomers is a "racemic" mixture. The symbol "(±)" may be used to designate a racemic mixture where appropriate. "Diastereoisomers" are stereoisomers that have at least two asymmetric atoms, but which are not mirror-images of each other. A "meso compound" or "meso isomer" is a non-optically active member of a set of stereoisomers. Meso isomers contain two or more stereocenters but are not chiral (i.e., a plane of symmetry exists within the molecule). The absolute stereochemistry is specified according to the Cahn-Ingold-Prelog R-S system. When a compound is a pure enantiomer the stereochemistry at each chiral carbon can be specified by either R or S. Resolved compounds whose absolute configuration is unknown can be designated (+) or (-) depending on the direction (dextro- or levorotatory) which they rotate plane polarized light at the wavelength of the sodium D line. Certain of the compounds disclosed and/or described herein contain one or more asymmetric centers and can thus give rise to enantiomers, diastereomers, meso isomers and other stereoisomeric forms. Unless otherwise indicated, compounds disclosed and/or described herein include all such possible enantiomers, diastereomers, meso isomers and other stereoisomeric forms, including racemic mixtures, optically pure forms and intermediate mixtures. Enantiomers, diastereomers, meso isomers and other stereoisomeric forms can be prepared using chiral synthons or chiral reagents, or resolved using conventional techniques. Unless specified otherwise, when the compounds disclosed and/or described herein contain olefinic double bonds or other centers of geometric asymmetry, it is intended that the compounds include both E and Z isomers.

The stereochemistry depicted in the structures of cyclic meso compounds is not absolute; rather the stereochemistry is intended to indicate the positioning of the substituents relative to one another, e.g., *cis* or *trans*.

For example,

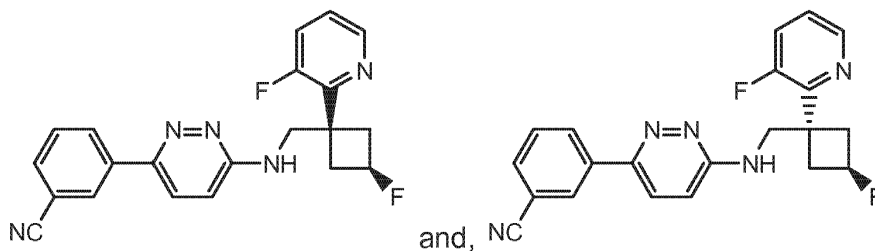


is intended to designate a compound wherein the fluorine and pyridyl substituents on the cyclobutyl ring are in a *cis* configuration to one another, while



is intended to designate a compound wherein the fluorine and pyridyl substituents on the cyclobutyl ring are in a *trans* configuration to one another.

When a compound can exist as one or more meso isomers, all possible meso isomers are intended to be included. For example, the compound 3-[6-({[3-fluoro-1-(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]benzenecarbonitrile is intended to include both *cis* and *trans* meso isomers:



and mixtures thereof. Unless otherwise indicated, compounds disclosed and/or described herein include all possible meso isomers and mixtures thereof.

"Tautomers" are structurally distinct isomers that interconvert by tautomerization. Tautomerization is a form of isomerization and includes prototropic or proton-shift tautomerization, which is considered a subset of acid-base chemistry. Prototropic tautomerization or proton-shift

tautomerization involves the migration of a proton accompanied by changes in bond order, often the interchange of a single bond with an adjacent double bond. Where tautomerization is possible (e.g. in solution), a chemical equilibrium of tautomers can be reached. An example of tautomerization is keto-enol tautomerization. A specific example of keto-enol tautomerization is the interconversion of pentane-2,4-dione and 4-hydroxypent-3-en-2-one tautomers. Another example of tautomerization is phenol-keto tautomerization. A specific example of phenol-keto tautomerization is the interconversion of pyridin-4-ol and pyridin-4(1H)-one tautomers. When the compounds described herein contain moieties capable of tautomerization, and unless specified otherwise, it is intended that the compounds include all possible tautomers.

“Protecting group” has the meaning conventionally associated with it in organic synthesis, i.e., a group that selectively blocks one or more reactive sites in a multifunctional compound such that a chemical reaction can be carried out selectively on another unprotected reactive site, and such that the group can readily be removed after the selective reaction is complete. A variety of protecting groups are disclosed, for example, in T.H. Greene and P. G. M. Wuts, *Protective Groups in Organic Synthesis*, Third Edition, John Wiley & Sons, New York (1999). For example, a “hydroxy protected form” contains at least one hydroxy group protected with a hydroxy protecting group. Likewise, amines and other reactive groups may similarly be protected.

The term “pharmaceutically acceptable salt” refers to salts that retain the biological effectiveness and properties of the compounds described herein and are not biologically or otherwise undesirable. Examples of pharmaceutically acceptable salts can be found in Berge et al., *Pharmaceutical Salts*, *J. Pharmaceutical Sciences*, January 1977, 66(1), 1-19. In many cases, the compounds described herein are capable of forming acid and/or base salts by virtue of the presence of amino and/or carboxyl groups or groups similar thereto. Pharmaceutically acceptable acid addition salts can be formed with inorganic acids and organic acids. Inorganic acids from which salts can be derived include, for example, hydrochloric acid, hydrobromic acid, sulfuric acid, nitric acid, and phosphoric acid. Organic acids from which

salts can be derived include, for example, acetic acid, propionic acid, glycolic acid, pyruvic acid, lactic acid, oxalic acid, malic acid, maleic acid, malonic acid, succinic acid, fumaric acid, tartaric acid, citric acid, benzoic acid, cinnamic acid, mandelic acid, methanesulfonic acid, ethanesulfonic acid, 2-hydroxyethylsulfonic acid, p-toluenesulfonic acid, stearic acid and salicylic acid. Pharmaceutically acceptable base addition salts can be formed with inorganic and organic bases. Inorganic bases from which salts can be derived include, for example, sodium, potassium, lithium, ammonium, calcium, magnesium, iron, zinc, copper, manganese, and aluminum. Organic bases from which salts can be derived include, for example, primary, secondary, and tertiary amines; substituted amines including naturally occurring substituted amines; cyclic amines; and basic ion exchange resins. Examples of organic bases include isopropylamine, trimethylamine, diethylamine, triethylamine, tripropylamine, and ethanolamine. In some embodiments, the pharmaceutically acceptable base addition salt is chosen from ammonium, potassium, sodium, calcium, and magnesium salts.

If the compound described herein is obtained as an acid addition salt, the free base can be obtained by basifying a solution of the acid salt. Conversely, if the compound is a free base, an addition salt, particularly a pharmaceutically acceptable addition salt, may be produced by dissolving the free base in a suitable organic solvent and treating the solution with an acid, in accordance with conventional procedures for preparing acid addition salts from base compounds (see, e.g., Berge et al., *Pharmaceutical Salts*, *J. Pharmaceutical Sciences*, January 1977, 66(1), 1-19). Those skilled in the art will recognize various synthetic methodologies that may be used to prepare pharmaceutically acceptable addition salts.

A "solvate" is formed by the interaction of a solvent and a compound. Suitable solvents include, for example, water and alcohols (e.g., ethanol). Solvates include hydrates having any ratio of compound to water, such as monohydrates, dihydrates and hemi-hydrates.

A "chelate" is formed by the coordination of a compound to a metal ion at two (or more) points. The term "compound" is intended to include chelates of compounds. Similarly, "salts" includes chelates of salts and "solvates" includes chelates of solvates.

A “non-covalent complex” is formed by the interaction of a compound and another molecule wherein a covalent bond is not formed between the compound and the molecule. For example, complexation can occur through van der Waals interactions, hydrogen bonding, and electrostatic interactions (also called ionic bonding). Such non-covalent complexes are included in the term “compound”.

The term “prodrug” refers to a substance administered in an inactive or less active form that is then transformed (e.g., by metabolic processing of the prodrug in the body) into an active compound. The rationale behind administering a prodrug is to optimize absorption, distribution, metabolism, and/or excretion of the drug. Prodrugs may be obtained by making a derivative of an active compound (e.g., a compound of Formula I or another compound disclosed and/or described herein) that will undergo a transformation under the conditions of use (e.g., within the body) to form the active compound. The transformation of the prodrug to the active compound may proceed spontaneously (e.g., by way of a hydrolysis reaction) or it can be catalyzed or induced by another agent (e.g., an enzyme, light, acid or base, and/or temperature). The agent may be endogenous to the conditions of use (e.g., an enzyme present in the cells to which the prodrug is administered, or the acidic conditions of the stomach) or the agent may be supplied exogenously. Prodrugs can be obtained by converting one or more functional groups in the active compound into another functional group, which is then converted back to the original functional group when administered to the body. For example, a hydroxyl functional group can be converted to a sulfonate, phosphate, ester or carbonate group, which in turn can be hydrolyzed in vivo back to the hydroxyl group. Similarly, an amino functional group can be converted, for example, into an amide, carbamate, imine, urea, phosphenyl, phosphoryl or sulfenyl functional group, which can be hydrolyzed in vivo back to the amino group. A carboxyl functional group can be converted, for example, into an ester (including silyl esters and thioesters), amide or hydrazide functional group, which can be hydrolyzed in vivo back to the carboxyl group. Examples of prodrugs include, but are not limited to, phosphate, acetate, formate and benzoate derivatives of functional groups (such as alcohol or amine groups) present in the compounds of Formula I and

other compounds disclosed and/or described herein.

The compounds disclosed and/or described herein can be enriched isotopic forms, e.g., enriched in the content of ^2H , ^3H , ^{11}C , ^{13}C and/or ^{14}C . In one embodiment, the compound contains at least one deuterium atom. Such deuterated forms can be made, for example, by the procedure described in U.S. Patent Nos. 5,846,514 and 6,334,997. Such deuterated compounds may improve the efficacy and increase the duration of action of compounds disclosed and/or described herein. Deuterium substituted compounds can be synthesized using various methods, such as those described in: Dean, D., Recent Advances in the Synthesis and Applications of Radiolabeled Compounds for Drug Discovery and Development, *Curr. Pharm. Des.*, 2000; 6(10); Kabalka, G. et al., The Synthesis of Radiolabeled Compounds via Organometallic Intermediates, *Tetrahedron*, 1989, 45(21), 6601-21; and Evans, E., Synthesis of radiolabeled compounds, *J. Radioanal. Chem.*, 1981, 64(1-2), 9-32.

The term "pharmaceutically acceptable carrier" or "pharmaceutically acceptable excipient" includes any and all solvents, dispersion media, coatings, antibacterial and antifungal agents, isotonic and absorption delaying agents and the like. The use of such media and agents for pharmaceutically active substances is well known in the art. Except insofar as any conventional media or agent is incompatible with the active ingredient, its use in pharmaceutical compositions is contemplated. Supplementary active ingredients can also be incorporated into the pharmaceutical compositions.

The term "active agent" is used to indicate a compound that has biological activity. In some embodiments, an "active agent" is a compound having therapeutic utility. In some embodiments, the compound enhances at least one aspect of skeletal muscle function or activity, such as power output, skeletal muscle force, skeletal muscle endurance, oxygen consumption, efficiency, and/or calcium sensitivity. In some embodiments, an active agent is a compound of Formula I, or a pharmaceutically acceptable salt thereof.

The terms "patient" and "subject" refer to an animal, such as a mammal, bird or fish. In some embodiments, the patient or subject is a mammal. Mammals include, for example, mice, rats, dogs, cats, pigs, sheep, horses, cows and humans. In some embodiments, the patient or subject is a human,

for example a human that has been or will be the object of treatment, observation or experiment. The compounds, compositions and methods described herein can be useful in both human therapy and veterinary applications.

As used herein, "skeletal muscle" includes skeletal muscle tissue as well as components thereof, such as skeletal muscle fibers, the myofibrils comprising the skeletal muscle fibers, the skeletal sarcomere which comprises the myofibrils, and the various components of the skeletal sarcomere described herein, including skeletal myosin, actin, tropomyosin, troponin C, troponin I, troponin T and fragments and isoforms thereof. In some embodiments, "skeletal muscle" includes fast skeletal muscle tissue as well as components thereof, such as fast skeletal muscle fibers, the myofibrils comprising the fast skeletal muscle fibers, the fast skeletal sarcomere which comprises the myofibrils, and the various components of the fast skeletal sarcomere described herein, including fast skeletal myosin, actin, tropomyosin, troponin C, troponin I, troponin T and fragments and isoforms thereof. Skeletal muscle does not include cardiac muscle or a combination of sarcomeric components that occurs in such combination in its entirety in cardiac muscle.

As used herein, the term "therapeutic" refers to the ability to modulate the contractility of fast skeletal muscle. As used herein, "modulation" (and related terms, such as "modulate", "modulated", "modulating") refers to a change in function or efficiency of one or more components of the fast skeletal muscle sarcomere, including myosin, actin, tropomyosin, troponin C, troponin I, and troponin T from fast skeletal muscle, including fragments and isoforms thereof, as a direct or indirect response to the presence of a compound described herein, relative to the activity of the fast skeletal sarcomere in the absence of the compound. The change may be an increase in activity (potentiation) or a decrease in activity (inhibition), and may be due to the direct interaction of the compound with the sarcomere, or due to the interaction of the compound with one or more other factors that in turn affect the sarcomere or one or more of its components. In some embodiments, modulation is a potentiation of function or efficiency of one or more components of the fast skeletal muscle sarcomere, including myosin, actin,

tropomyosin, troponin C, troponin I, and troponin T from fast skeletal muscle, including fragments and isoforms thereof. Modulation may be mediated by any mechanism and at any physiological level, for example, through sensitization of the fast skeletal sarcomere to contraction at lower Ca^{2+} concentrations. As used herein, "efficiency" or "muscle efficiency" means the ratio of mechanical work output to the total metabolic cost.

The term "therapeutically effective amount" or "effective amount" refers to that amount of a compound disclosed and/or described herein that is sufficient to affect treatment, as defined herein, when administered to a patient in need of such treatment. A therapeutically effective amount of a compound may be an amount sufficient to treat a disease responsive to modulation of fast skeletal muscle. The therapeutically effective amount will vary depending upon, for example, the subject and disease condition being treated, the weight and age of the subject, the severity of the disease condition, the particular compound, the dosing regimen to be followed, timing of administration, the manner of administration, all of which can readily be determined by one of ordinary skill in the art. The therapeutically effective amount may be ascertained experimentally, for example by assaying blood concentration of the chemical entity, or theoretically, by calculating bioavailability.

"Treatment" (and related terms, such as "treat", "treated", "treating") includes one or more of: preventing a disease or disorder (i.e., causing the clinical symptoms of the disease or disorder not to develop); inhibiting a disease or disorder; slowing or arresting the development of clinical symptoms of a disease or disorder; and/or relieving a disease or disorder (i.e., causing relief from or regression of clinical symptoms). The term encompasses situations where the disease or disorder is already being experienced by a patient, as well as situations where the disease or disorder is not currently being experienced but is expected to arise. The term covers both complete and partial reduction or prevention of the condition or disorder, and complete or partial reduction of clinical symptoms of a disease or disorder. Thus, compounds described and/or disclosed herein may prevent an existing disease or disorder from worsening, assist in the management of the disease or disorder, or reduce or eliminate the disease or disorder. When

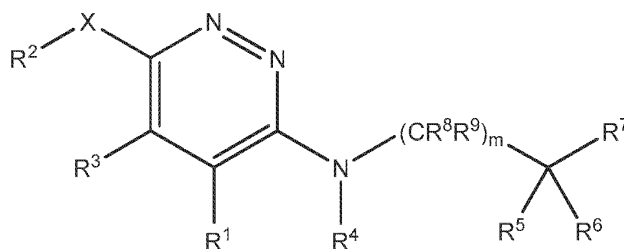
used in a prophylactic manner, the compounds disclosed and/or described herein may prevent a disease or disorder from developing or lessen the extent of a disease or disorder that may develop.

As used herein, "power output" of a muscle means work/cycle time and may be scaled up from *PoLo*/cycle time units based on the properties of the muscle. Power output may be modulated by changing, for example, activating parameters during cyclical length changes, including timing of activation (phase of activation) and the period of activation (duty cycle.)

"ATPase" refers to an enzyme that hydrolyzes ATP. ATPases include proteins comprising molecular motors such as the myosins.

As used herein, "selective binding" or "selectively binding" refers to preferential binding to a target protein in one type of muscle or muscle fiber as opposed to other types. For example, a compound selectively binds to fast skeletal troponin C if the compound preferentially binds troponin C in the troponin complex of a fast skeletal muscle fiber or sarcomere in comparison with troponin C in the troponin complex of a slow muscle fiber or sarcomere or with troponin C in the troponin complex of a cardiac sarcomere.

Provided is a compound of Formula I:



Formula I

or a pharmaceutically acceptable salt thereof, wherein:

R^1 is selected from hydrogen, halogen, CN, C_{1-6} alkyl, C_{1-6} haloalkyl, $C(O)OR^a$, $C(O)NR^bR^c$, OR^a , NR^bR^c , C_{6-10} aryl and 5-10 membered heteroaryl;

R^2 is selected from C_{3-8} cycloalkyl, C_{3-8} cycloalkenyl, 3-8 membered heterocycloalkyl, 3-8 membered heterocycloalkenyl, C_{6-10} aryl, 5-10 membered heteroaryl and NR^bR^c , wherein each of the C_{3-8} cycloalkyl, C_{3-8} cycloalkenyl, 3-8 membered heterocycloalkyl, 3-8 membered heterocycloalkenyl, C_{6-10} aryl and 5-10 membered heteroaryl groups is

optionally substituted with 1, 2, 3, 4 or 5 substituents selected from halogen, CN, oxo, $(\text{CH}_2)_n\text{OR}^a$, $(\text{CH}_2)_n\text{OC(O)R}^a$, $(\text{CH}_2)_n\text{OC(O)OR}^a$, $(\text{CH}_2)_n\text{OC(O)NR}^b\text{R}^c$, $(\text{CH}_2)_n\text{NR}^b\text{R}^c$, $(\text{CH}_2)_n\text{NR}^d\text{C(O)R}^a$, $(\text{CH}_2)_n\text{NR}^d\text{C(O)OR}^a$, $(\text{CH}_2)_n\text{NR}^d\text{C(O)NR}^b\text{R}^c$, $(\text{CH}_2)_n\text{NR}^d\text{C(O)C(O)NR}^b\text{R}^c$, $(\text{CH}_2)_n\text{NR}^d\text{C(S)R}^a$, $(\text{CH}_2)_n\text{NR}^d\text{C(S)OR}^a$, $(\text{CH}_2)_n\text{NR}^d\text{C(S)NR}^b\text{R}^c$, $(\text{CH}_2)_n\text{NR}^d\text{C(NR}^e\text{)NR}^b\text{R}^c$, $(\text{CH}_2)_n\text{NR}^d\text{S(O)R}^a$, $(\text{CH}_2)_n\text{NR}^d\text{SO}_2\text{R}^a$, $(\text{CH}_2)_n\text{NR}^d\text{SO}_2\text{NR}^b\text{R}^c$, $(\text{CH}_2)_n\text{C(O)R}^a$, $(\text{CH}_2)_n\text{C(O)OR}^a$, $(\text{CH}_2)_n\text{C(O)NR}^b\text{R}^c$, $(\text{CH}_2)_n\text{C(S)R}^a$, $(\text{CH}_2)_n\text{C(S)OR}^a$, $(\text{CH}_2)_n\text{C(S)NR}^b\text{R}^c$, $(\text{CH}_2)_n\text{C(NR}^e\text{)NR}^b\text{R}^c$, $(\text{CH}_2)_n\text{SR}^a$, $(\text{CH}_2)_n\text{S(O)R}^a$, $(\text{CH}_2)_n\text{SO}_2\text{R}^a$, $(\text{CH}_2)_n\text{SO}_2\text{NR}^b\text{R}^c$, C_{1-6} alkyl, C_{1-6} haloalkyl, C_{2-6} alkenyl, C_{2-6} alkynyl, $(\text{CH}_2)_n\text{C}_{3-8}$ cycloalkyl, $(\text{CH}_2)_n\text{3-8 membered heterocycloalkyl}$, $(\text{CH}_2)_n\text{C}_{6-10}$ aryl and $(\text{CH}_2)_n\text{5-10 membered heteroaryl}$, wherein each of the C_{1-6} alkyl, C_{2-6} alkenyl, C_{2-6} alkynyl, $(\text{CH}_2)_n\text{C}_{3-8}$ cycloalkyl, $(\text{CH}_2)_n\text{3-8 membered heterocycloalkyl}$, $(\text{CH}_2)_n\text{C}_{6-10}$ aryl and $(\text{CH}_2)_n\text{5-10 membered heteroaryl}$ groups is optionally substituted with 1, 2, 3, 4 or 5 R^f substituents;

R^3 is selected from hydrogen, halogen, CN, C_{1-6} alkyl, C_{1-6} haloalkyl, C(O)OR^a , $\text{C(O)NR}^b\text{R}^c$, OR^a , NR^bR^c , C_{6-10} aryl and 5-10 membered heteroaryl;

R^4 is selected from hydrogen, C_{1-6} alkyl, C_{1-6} haloalkyl, C(O)R^a , C(O)OR^a , $\text{C(O)NR}^b\text{R}^c$ and SO_2R^a ;

R^5 and R^6 are each independently selected from hydrogen, halogen, C_{1-6} alkyl and C_{1-6} haloalkyl;

or alternatively, R^5 and R^6 together with the carbon atom to which they are bound form C_{3-8} cycloalkyl, C_{3-8} cycloalkenyl, 3-8 membered heterocycloalkyl or 3-8 membered heterocycloalkenyl, each optionally substituted with 1, 2, 3, 4 or 5 substituents selected from halogen, CN, oxo, OR^a , OC(O)R^a , OC(O)OR^a , NR^bR^c , C(O)R^a , C(O)OR^a , $\text{C(O)NR}^b\text{R}^c$, S(O)R^a , SO_2R^a , $\text{SO}_2\text{NR}^b\text{R}^c$, C_{1-6} alkyl and C_{1-6} haloalkyl;

R^7 is selected from C_{3-8} cycloalkyl, C_{3-8} cycloalkenyl, 3-8 membered heterocycloalkyl, 3-8 membered heterocycloalkenyl, C_{6-10} aryl and 5-10 membered heteroaryl, each optionally substituted with 1, 2, 3, 4 or 5 substituents selected from halogen, CN, oxo, OR^a , OC(O)R^a , OC(O)OR^a , $\text{OC(O)NR}^b\text{R}^c$, NR^bR^c , $\text{NR}^d\text{C(O)R}^a$, $\text{NR}^d\text{C(O)OR}^a$, $\text{NR}^d\text{C(O)NR}^b\text{R}^c$, $\text{NR}^d\text{C(O)C(O)NR}^b\text{R}^c$, $\text{NR}^d\text{C(S)R}^a$, $\text{NR}^d\text{C(S)OR}^a$, $\text{NR}^d\text{C(S)NR}^b\text{R}^c$,

NR^dC(NR^e)NR^bR^c, NR^dS(O)R^a, NR^dSO₂R^a, NR^dSO₂NR^bR^c, C(O)R^a, C(O)OR^a, C(O)NR^bR^c, C(S)R^a, C(S)OR^a, C(S)NR^bR^c, C(NR^e)NR^bR^c, SR^a, S(O)R^a, SO₂R^a, SO₂NR^bR^c, C₁₋₆ alkyl, C₁₋₆ haloalkyl, C₂₋₆ alkenyl, C₂₋₆ alkynyl, C₃₋₈ cycloalkyl, C₃₋₈ cycloalkenyl, 3-8 membered heterocycloalkyl, 3-8 membered heterocycloalkenyl, C₆₋₁₀ aryl, C₇₋₁₁ aralkyl, and 5-10 membered heteroaryl, wherein each of the C₁₋₆ alkyl, C₂₋₆ alkenyl, C₂₋₆ alkynyl, C₃₋₈ cycloalkyl, C₃₋₈ cycloalkenyl, 3-8 membered heterocycloalkyl, 3-8 membered heterocycloalkenyl, C₆₋₁₀ aryl, C₇₋₁₁ aralkyl and 5-10 membered heteroaryl groups is optionally substituted with 1, 2, 3, 4 or 5 R^f substituents;

R⁸ and R⁹, at each occurrence, are each independently selected from hydrogen, halogen and C₁₋₆ alkyl;

X is selected from a bond, -(CH₂)_p-, -(CH₂)_pC(O)(CH₂)_q-, -(CH₂)_pO(CH₂)_q-, -(CH₂)_pS(CH₂)_q-, -(CH₂)_pNR^d(CH₂)_q-, -(CH₂)_pC(O)O(CH₂)_q-, -(CH₂)_pOC(O)(CH₂)_q-, -(CH₂)_pNR^dC(O)(CH₂)_q-, -(CH₂)_pC(O)NR^d(CH₂)_q-, -(CH₂)_pNR^dC(O)NR^d(CH₂)_q-, -(CH₂)_pNR^dSO₂(CH₂)_q-, and -(CH₂)_pSO₂NR^d(CH₂)_q-;

or alternatively, X, R² and R³, together with the carbon atoms to which they are bound, form a 5-6 membered ring optionally containing one or more heteroatoms selected from oxygen nitrogen and sulfur, and optionally containing one or more double bonds, and optionally substituted with 1, 2, 3, 4 or 5 R^f substituents;

R^a, at each occurrence, is independently selected from hydrogen, C₁₋₆ alkyl, C₁₋₆ haloalkyl, C₂₋₆ alkenyl, C₂₋₆ alkynyl, C₃₋₈ cycloalkyl, C₃₋₈ cycloalkenyl, 3-8 membered heterocycloalkyl, 3-8 membered heterocycloalkenyl, C₆₋₁₀ aryl, C₇₋₁₁ aralkyl and 5-10 membered heteroaryl, wherein each of the C₁₋₆ alkyl, C₂₋₆ alkenyl, C₂₋₆ alkynyl, C₃₋₈ cycloalkyl, C₃₋₈ cycloalkenyl, 3-8 membered heterocycloalkyl, 3-8 membered heterocycloalkenyl, C₆₋₁₀ aryl, C₇₋₁₁ aralkyl and 5-10 membered heteroaryl groups is optionally substituted with 1, 2, 3, 4 or 5 R^f substituents;

R^b and R^c, at each occurrence, are each independently selected from hydrogen, C₁₋₆ alkyl, C₁₋₆ haloalkyl, C₂₋₆ alkenyl, C₂₋₆ alkynyl, C₃₋₈ cycloalkyl, C₃₋₈ cycloalkenyl, 3-8 membered heterocycloalkyl, 3-8 membered

heterocycloalkenyl, C₆₋₁₀ aryl, C₇₋₁₁ aralkyl, 5-10 membered heteroaryl, C(O)R^g, C(O)OR^g, C(O)NRⁱR^j and SO₂R^g, wherein each of the C₁₋₆ alkyl, C₂₋₆ alkenyl, C₂₋₆ alkynyl, C₃₋₈ cycloalkyl, C₃₋₈ cycloalkenyl, 3-8 membered heterocycloalkyl, 3-8 membered heterocycloalkenyl, C₆₋₁₀ aryl, C₇₋₁₁ aralkyl and 5-10 membered heteroaryl groups is optionally substituted with 1, 2, 3, 4 or 5 R^f substituents;

R^d, at each occurrence, is independently selected from hydrogen and C₁₋₆ alkyl;

R^e, at each occurrence, is independently selected from hydrogen, CN, OH, C₁₋₆ alkoxy, C₁₋₆ alkyl and C₁₋₆ haloalkyl;

R^f, at each occurrence, is independently selected from halogen, CN, OR^h, OC(O)R^h, OC(O)OR^h, OC(O)NRⁱR^j, NRⁱR^j, NR^dC(O)R^h, NR^dC(O)OR^h, NR^dC(O)NRⁱR^j, NR^dC(O)C(O)NRⁱR^j, NR^dC(S)R^h, NR^dC(S)OR^h, NR^dC(S)NRⁱR^j, NR^dC(NR^e)NRⁱR^j, NR^dS(O)R^h, NR^dSO₂R^h, NR^dSO₂NRⁱR^j, C(O)R^h, C(O)OR^h, C(O)NRⁱR^j, C(S)R^h, C(S)OR^h, C(S)NRⁱR^j, C(NR^e)NRⁱR^j, SR^h, S(O)R^h, SO₂R^h, SO₂NRⁱR^j, C₁₋₆ alkyl, C₁₋₆ haloalkyl, C₂₋₆ alkenyl, C₂₋₆ alkynyl, C₃₋₈ cycloalkyl, C₃₋₈ cycloalkenyl, 3-8 membered heterocycloalkyl, 3-8 membered heterocycloalkenyl, C₆₋₁₀ aryl, C₇₋₁₁ aralkyl and 5-10 membered heteroaryl, wherein each of the C₁₋₆ alkyl, C₂₋₆ alkenyl, C₂₋₆ alkynyl, C₃₋₈ cycloalkyl, C₃₋₈ cycloalkenyl, 3-8 membered heterocycloalkyl, 3-8 membered heterocycloalkenyl, C₆₋₁₀ aryl, C₇₋₁₁ aralkyl and 5-10 membered heteroaryl groups is optionally substituted with 1, 2, 3, 4 or 5 R^k substituents;

or two R^f substituents bound to a single carbon atom, together with the carbon atom to which they are both bound, form a group selected from carbonyl, C₃₋₈ cycloalkyl and 3-8 membered heterocycloalkyl;

R^g, at each occurrence, is independently selected from C₁₋₆ alkyl, C₁₋₆ haloalkyl, phenyl, naphthyl, and C₇₋₁₁ aralkyl, each optionally substituted with 1, 2, 3, 4 or 5 substituents selected from halogen, CN, OH, C₁₋₆ alkoxy, C₁₋₆ alkyl and C₁₋₆ haloalkyl;

R^h, at each occurrence, is independently selected from hydrogen, C₁₋₆ alkyl, C₁₋₆ haloalkyl, C₂₋₆ alkenyl, C₂₋₆ alkynyl, C₃₋₈ cycloalkyl, C₃₋₈ cycloalkenyl, 3-8 membered heterocycloalkyl, 3-8 membered heterocycloalkenyl, C₆₋₁₀ aryl,

C₇₋₁₁ aralkyl and 5-10 membered heteroaryl, wherein each of the C₁₋₆ alkyl, C₂₋₆ alkenyl, C₂₋₆ alkynyl, C₃₋₈ cycloalkyl, C₃₋₈ cycloalkenyl, 3-8 membered heterocycloalkyl, 3-8 membered heterocycloalkenyl, C₆₋₁₀ aryl, C₇₋₁₁ aralkyl and 5-10 membered heteroaryl groups is optionally substituted with 1, 2, 3, 4 or 5 R^k substituents;

Rⁱ and R^j, at each occurrence, are each independently selected from hydrogen, C₁₋₆ alkyl, C₁₋₆ haloalkyl, C₂₋₆ alkenyl, C₂₋₆ alkynyl, C₃₋₈ cycloalkyl, C₃₋₈ cycloalkenyl, 3-8 membered heterocycloalkyl, 3-8 membered heterocycloalkenyl, C₆₋₁₀ aryl, C₇₋₁₁ aralkyl, 5-10 membered heteroaryl, C(O)R^g, and C(O)OR^g, wherein each of the C₁₋₆ alkyl, C₁₋₆ haloalkyl, C₂₋₆ alkenyl, C₂₋₆ alkynyl, C₃₋₈ cycloalkyl, C₃₋₈ cycloalkenyl, 3-8 membered heterocycloalkyl, 3-8 membered heterocycloalkenyl, C₆₋₁₀ aryl, C₇₋₁₁ aralkyl and 5-10 membered heteroaryl groups is optionally substituted with 1, 2, 3, 4 or 5 substituents selected from halogen, CN, OH, C₁₋₆ alkoxy, C₁₋₆ alkyl and C₁₋₆ haloalkyl;

R^k, at each occurrence, is independently selected from halogen, CN, OH, C₁₋₆ alkoxy, NH₂, NH(C₁₋₆ alkyl), N(C₁₋₆ alkyl)₂, NHC(O)C₁₋₆ alkyl, NHC(O)C₇₋₁₁ aralkyl, NHC(O)OC₁₋₆ alkyl, NHC(O)OC₇₋₁₁ aralkyl, OC(O)C₁₋₆ alkyl, OC(O)C₇₋₁₁ aralkyl, OC(O)OC₁₋₆ alkyl, OC(O)OC₇₋₁₁ aralkyl, C(O)C₁₋₆ alkyl, C(O)C₇₋₁₁ aralkyl, C(O)OC₁₋₆ alkyl, C(O)OC₇₋₁₁ aralkyl, C₁₋₆ alkyl, C₁₋₆ haloalkyl, C₂₋₆ alkenyl, and C₂₋₆ alkynyl, wherein each C₁₋₆ alkyl, C₂₋₆ alkenyl, C₂₋₆ alkynyl, and C₇₋₁₁ aralkyl substituent is optionally substituted with 1, 2 or 3 substituents selected from OH, C₁₋₆ alkoxy, NH₂, NH(C₁₋₆ alkyl), N(C₁₋₆ alkyl)₂, NHC(O)C₁₋₆ alkyl, NHC(O)C₇₋₁₁ aralkyl, NHC(O)OC₁₋₆ alkyl, and NHC(O)OC₇₋₁₁ aralkyl;

or two R^k substituents bound to a single carbon atom, together with the carbon atom to which they are both bound, form a carbonyl group;

m is 0, 1 or 2;

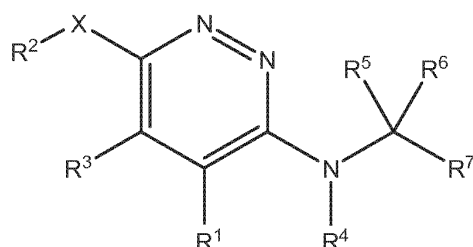
n, at each occurrence, independently is 0, 1 or 2;

p is 0, 1 or 2; and

q is 0, 1 or 2.

In some embodiments of compounds of Formula I, when m is 1 and R^5 and R^6 are each methyl, then R^7 is not piperidinyl or morpholino. In some embodiments of compounds of Formula I, when m is 1, X is a bond and R^2 is optionally substituted phenyl, then R^7 is not piperidinyl or morpholino. In some embodiments, the compound of Formula I is not 6-(4-chlorophenyl)-5-methyl-N-(2-methyl-2-(piperidin-1-yl)propyl)pyridazin-3-amine, N-(2-methyl-2-(piperidin-1-yl)propyl)-6-phenyl-5-propylpyridazin-3-amine or N-(2-methyl-2-morpholinopropyl)-6-phenyl-5-propylpyridazin-3-amine.

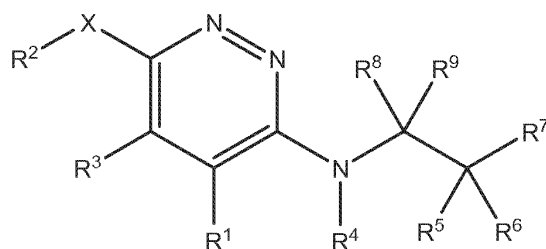
In some embodiments of compounds of Formula I, m is 0, i.e., a compound of Formula II, or a pharmaceutically acceptable salt thereof:



Formula II

wherein R^1 , R^2 , R^3 , R^4 , R^5 , R^6 , R^7 and X are as defined herein.

In some embodiments of compounds of Formula I, m is 1, i.e., a compound of Formula III, or a pharmaceutically acceptable salt thereof:



Formula III

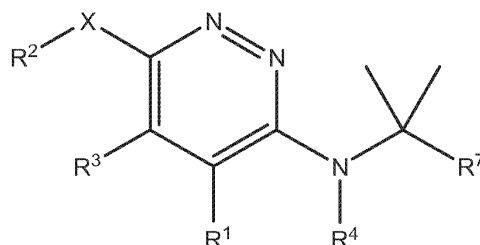
wherein R^1 , R^2 , R^3 , R^4 , R^5 , R^6 , R^7 , R^8 , R^9 and X are as defined herein.

In some embodiments of compounds of Formula I, II or III, one of R^5 and R^6 is hydrogen and the other is C_{1-6} alkyl.

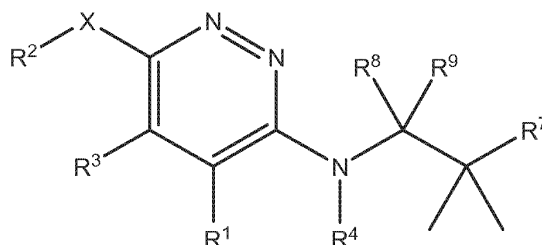
In some embodiments of compounds of Formula I, II or III, R^5 and R^6 are each independently C_{1-6} alkyl.

In some embodiments of compounds of Formula I, II or III, R⁵ and R⁶ are each methyl.

In some embodiments, the compounds are of Formula IV(a) or IV(b), or a pharmaceutically acceptable salt thereof:



Formula IV(a)



Formula IV(b)

wherein R¹, R², R³, R⁴, R⁷, R⁸, R⁹ and X are as defined herein.

In some embodiments of compounds of Formula IV(b), R⁷ is not piperidinyl or morpholinyl.

In some embodiments of compounds of Formula I, II or III, R⁵ and R⁶ together with the carbon atom to which they are bound form C₃₋₈ cycloalkyl, C₃₋₈ cycloalkenyl, 3-8 membered heterocycloalkyl or 3-8 membered heterocycloalkenyl, each optionally substituted with 1, 2, 3, 4 or 5 substituents selected from halogen, CN, oxo, OR^a, OC(O)R^a, OC(O)OR^a, NR^bR^c, C(O)R^a, C(O)OR^a, C(O)NR^bR^c, S(O)R^a, SO₂R^a, SO₂NR^bR^c, C₁₋₆ alkyl and C₁₋₆ haloalkyl.

In some embodiments of compounds of Formula I, II or III, R⁵ and R⁶, together with the carbon to which they are bound, form C₃₋₆ cycloalkyl optionally substituted with 1, 2, 3, 4 or 5 substituents selected from halogen, CN, oxo, OR^a, OC(O)R^a, OC(O)OR^a, NR^bR^c, C(O)R^a, C(O)OR^a, C(O)NR^bR^c,

$S(O)R^a$, SO_2R^a , $SO_2NR^bR^c$, C_{1-6} alkyl and C_{1-6} haloalkyl.

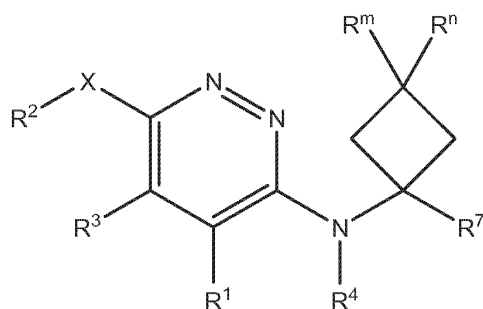
In some embodiments of compounds of Formula I, II or III, R^5 and R^6 , together with the carbon to which they are bound, form cyclopropyl, cyclobutyl, cyclopentyl or cyclohexyl, each optionally substituted with 1, 2, 3, 4 or 5 substituents selected from halogen, CN, oxo, OR^a , $OC(O)R^a$, $OC(O)OR^a$, NR^bR^c , $C(O)R^a$, $C(O)OR^a$, $C(O)NR^bR^c$, $S(O)R^a$, SO_2R^a , $SO_2NR^bR^c$, C_{1-6} alkyl and C_{1-6} haloalkyl.

In some embodiments of compounds of Formula I, II or III, R^5 and R^6 , together with the carbon to which they are bound, form cyclobutyl optionally substituted with 1, 2, 3, 4 or 5 substituents selected from halogen, CN, oxo, OR^a , $OC(O)R^a$, $OC(O)OR^a$, NR^bR^c , $C(O)R^a$, $C(O)OR^a$, $C(O)NR^bR^c$, $S(O)R^a$, SO_2R^a , $SO_2NR^bR^c$, C_{1-6} alkyl and C_{1-6} haloalkyl.

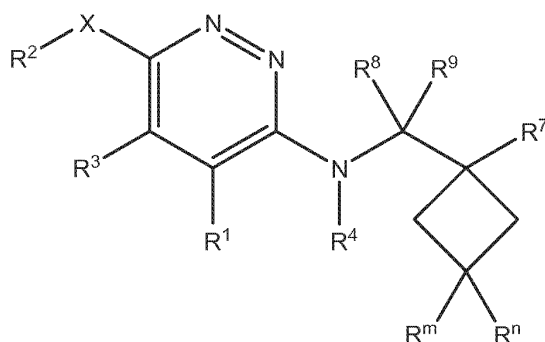
In some embodiments of compounds of Formula I, II or III, R^5 and R^6 , together with the carbon to which they are bound, form cyclobutyl substituted with one substituent selected from halogen, CN, oxo, OR^a , $OC(O)R^a$, $OC(O)OR^a$, NR^bR^c , $C(O)R^a$, $C(O)OR^a$, $C(O)NR^bR^c$, $S(O)R^a$, SO_2R^a , $SO_2NR^bR^c$, C_{1-6} alkyl and C_{1-6} haloalkyl, wherein the substituent and R^7 are in a *trans* configuration with respect to one another on the cyclobutyl ring.

In some embodiments of compounds of Formula I, II or III, R^5 and R^6 , together with the carbon to which they are bound, form cyclobutyl substituted with one substituent selected from halogen, CN, oxo, OR^a , $OC(O)R^a$, $OC(O)OR^a$, NR^bR^c , $C(O)R^a$, $C(O)OR^a$, $C(O)NR^bR^c$, $S(O)R^a$, SO_2R^a , $SO_2NR^bR^c$, C_{1-6} alkyl and C_{1-6} haloalkyl, wherein the substituent and R^7 are in a *cis* configuration with respect to one another on the cyclobutyl ring.

In some embodiments, the compounds are of Formula V(a) or V(b), or a pharmaceutically acceptable salt thereof:



Formula V(a)



Formula V(b)

wherein R^m and Rⁿ are each independently selected from hydrogen, halogen and C₁₋₆ alkyl, and R¹, R², R³, R⁴, R⁷, R⁸, R⁹ and X are as defined herein.

In some embodiments of compounds of Formula V(a) or V(b), R^m and Rⁿ are each hydrogen.

In some embodiments compounds of Formula V(a) or V(b), R^m and Rⁿ are each halogen.

In some embodiments compounds of Formula V(a) or V(b), R^m and Rⁿ are each fluorine.

In some embodiments compounds of Formula V(a) or V(b), one of R^m and Rⁿ is hydrogen and the other is halogen. In some embodiments of such compounds, the halogen and R⁷ are in a *trans* configuration with respect to one another on the cyclobutyl ring. In some embodiments of such compounds, the halogen and R⁷ are in a *cis* configuration with respect to one another on the cyclobutyl ring.

In some embodiments compounds of Formula V(a) or V(b), one of R^m

and Rⁿ is hydrogen and the other is fluorine. In some embodiments of such compounds, the fluorine and R⁷ are in a *trans* configuration with respect to one another on the cyclobutyl ring. In some embodiments of such compounds, the fluorine and R⁷ are in a *cis* configuration with respect to one another on the cyclobutyl ring.

In some embodiments of compounds of Formula I, II or III, R⁵ and R⁶, together with the carbon atom to which they are bound, form 3-6 membered heterocycloalkyl, each of which is optionally substituted with 1, 2, 3, 4 or 5 substituents selected from halogen, CN, oxo, OR^a, OC(O)R^a, OC(O)OR^a, NR^bR^c, C(O)R^a, C(O)OR^a, C(O)NR^bR^c, S(O)R^a, SO₂R^a, SO₂NR^bR^c, C₁₋₆ alkyl and C₁₋₆ haloalkyl.

In some embodiments of compounds of Formula I, II or III, R⁵ and R⁶, together with the carbon atom to which they are bound, form aziridine, azetidine, pyrrolidine, oxirane, oxetane or tetrahydrofuran, each of which is optionally substituted with 1, 2, 3, 4 or 5 substituents selected from halogen, CN, oxo, OR^a, OC(O)R^a, OC(O)OR^a, NR^bR^c, C(O)R^a, C(O)OR^a, C(O)NR^bR^c, S(O)R^a, SO₂R^a, SO₂NR^bR^c, C₁₋₆ alkyl and C₁₋₆ haloalkyl.

In some embodiments of compounds of Formula I, II or III, R⁵ and R⁶ are each independently C₁₋₆ alkyl, or R⁵ and R⁶ together with the carbon atom to which they are bound form C₃₋₈ cycloalkyl, C₃₋₈ cycloalkenyl, 3-8 membered heterocycloalkyl or 3-8 membered heterocycloalkenyl, each optionally substituted with 1, 2, 3, 4 or 5 substituents selected from halogen, CN, oxo, OR^a, OC(O)R^a, OC(O)OR^a, NR^bR^c, C(O)R^a, C(O)OR^a, C(O)NR^bR^c, S(O)R^a, SO₂R^a, SO₂NR^bR^c, C₁₋₆ alkyl and C₁₋₆ haloalkyl.

In some embodiments of compounds of Formula I, II or III, R⁵ and R⁶ are each methyl, or R⁵ and R⁶ together with the carbon atom to which they are bound form C₃₋₈ cycloalkyl, C₃₋₈ cycloalkenyl, 3-8 membered heterocycloalkyl or 3-8 membered heterocycloalkenyl, each optionally substituted with 1, 2, 3, 4 or 5 substituents selected from halogen, CN, oxo, OR^a, OC(O)R^a, OC(O)OR^a, NR^bR^c, C(O)R^a, C(O)OR^a, C(O)NR^bR^c, S(O)R^a, SO₂R^a, SO₂NR^bR^c, C₁₋₆ alkyl and C₁₋₆ haloalkyl.

In some embodiments of compounds of Formula I, II or III, R⁵ and R⁶

are each independently C₁₋₆ alkyl, or R⁵ and R⁶, together with the carbon to which they are bound, form cyclopropyl, cyclobutyl, cyclopentyl or cyclohexyl, each optionally substituted with 1, 2, 3, 4 or 5 substituents selected from halogen, CN, oxo, OR^a, OC(O)R^a, OC(O)OR^a, NR^bR^c, C(O)R^a, C(O)OR^a, C(O)NR^bR^c, S(O)R^a, SO₂R^a, SO₂NR^bR^c, C₁₋₆ alkyl and C₁₋₆ haloalkyl.

In some embodiments of compounds of Formula I, II or III, R⁵ and R⁶ are each methyl, or R⁵ and R⁶, together with the carbon to which they are bound, form cyclobutyl optionally substituted with 1, 2, 3, 4 or 5 substituents selected from halogen, CN, oxo, OR^a, OC(O)R^a, OC(O)OR^a, NR^bR^c, C(O)R^a, C(O)OR^a, C(O)NR^bR^c, S(O)R^a, SO₂R^a, SO₂NR^bR^c, C₁₋₆ alkyl and C₁₋₆ haloalkyl.

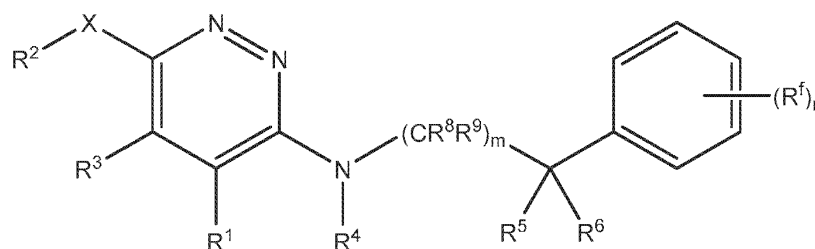
In some embodiments of compounds of Formula I, II, III, IV(a), IV(b), V(a) or V(b), R⁷ is selected from C₃₋₈ cycloalkyl, C₃₋₈ cycloalkenyl, 3-8 membered heterocycloalkyl, 3-8 membered heterocycloalkenyl, C₆₋₁₀ aryl and 5-10 membered heteroaryl, each optionally substituted with 1, 2, 3, 4 or 5 substituents selected from halogen, CN, oxo, OR^a, OC(O)R^a, OC(O)OR^a, OC(O)NR^bR^c, NR^bR^c, NR^dC(O)R^a, NR^dC(O)OR^a, NR^dC(O)NR^bR^c, NR^dC(O)C(O)NR^bR^c, NR^dC(S)R^a, NR^dC(S)OR^a, NR^dC(S)NR^bR^c, NR^dC(NR^e)NR^bR^c, NR^dS(O)R^a, NR^dSO₂R^a, NR^dSO₂NR^bR^c, C(O)R^a, C(O)OR^a, C(O)NR^bR^c, C(S)R^a, C(S)OR^a, C(S)NR^bR^c, C(NR^e)NR^bR^c, SR^a, S(O)R^a, SO₂R^a, SO₂NR^bR^c, C₁₋₆ alkyl, C₁₋₆ haloalkyl, C₂₋₆ alkenyl, C₂₋₆ alkynyl, C₃₋₈ cycloalkyl, C₃₋₈ cycloalkenyl, 3-8 membered heterocycloalkyl, 3-8 membered heterocycloalkenyl, C₆₋₁₀ aryl, C₇₋₁₁ aralkyl, and 5-10 membered heteroaryl, wherein each of the C₁₋₆ alkyl, C₂₋₆ alkenyl, C₂₋₆ alkynyl, C₃₋₈ cycloalkyl, C₃₋₈ cycloalkenyl, 3-8 membered heterocycloalkyl, 3-8 membered heterocycloalkenyl, C₆₋₁₀ aryl, C₇₋₁₁ aralkyl and 5-10 membered heteroaryl groups is optionally substituted with 1, 2, 3, 4 or 5 R^f substituents.

In some embodiments of compounds of Formula I, III or IV(b), when R⁵ and R⁶ are each methyl, R⁷ is not piperidinyl or morpholinyl.

In some embodiments of compounds of Formula I, II, III, IV(a), IV(b), V(a) or V(b), R⁷ is phenyl optionally substituted with 1, 2, 3, 4 or 5 substituents selected from halogen, CN, oxo, OR^a, OC(O)R^a, OC(O)OR^a, OC(O)NR^bR^c,

NR^bR^c , $\text{NR}^d\text{C}(\text{O})\text{R}^a$, $\text{NR}^d\text{C}(\text{O})\text{OR}^a$, $\text{NR}^d\text{C}(\text{O})\text{NR}^b\text{R}^c$, $\text{NR}^d\text{C}(\text{O})\text{C}(\text{O})\text{NR}^b\text{R}^c$,
 $\text{NR}^d\text{C}(\text{S})\text{R}^a$, $\text{NR}^d\text{C}(\text{S})\text{OR}^a$, $\text{NR}^d\text{C}(\text{S})\text{NR}^b\text{R}^c$, $\text{NR}^d\text{C}(\text{NR}^e)\text{NR}^b\text{R}^c$, $\text{NR}^d\text{S}(\text{O})\text{R}^a$,
 $\text{NR}^d\text{SO}_2\text{R}^a$, $\text{NR}^d\text{SO}_2\text{NR}^b\text{R}^c$, $\text{C}(\text{O})\text{R}^a$, $\text{C}(\text{O})\text{OR}^a$, $\text{C}(\text{O})\text{NR}^b\text{R}^c$, $\text{C}(\text{S})\text{R}^a$, $\text{C}(\text{S})\text{OR}^a$,
 $\text{C}(\text{S})\text{NR}^b\text{R}^c$, $\text{C}(\text{NR}^e)\text{NR}^b\text{R}^c$, SR^a , $\text{S}(\text{O})\text{R}^a$, SO_2R^a , $\text{SO}_2\text{NR}^b\text{R}^c$, C_{1-6} alkyl, C_{1-6}
haloalkyl, C_{2-6} alkenyl, C_{2-6} alkynyl, C_{3-8} cycloalkyl, C_{3-8} cycloalkenyl, 3-8
membered heterocycloalkyl, 3-8 membered heterocycloalkenyl, C_{6-10} aryl, C_{7-11}
aralkyl, and 5-10 membered heteroaryl, wherein each of the C_{1-6} alkyl, C_{2-6}
alkenyl, C_{2-6} alkynyl, C_{3-8} cycloalkyl, C_{3-8} cycloalkenyl, 3-8 membered
heterocycloalkyl, 3-8 membered heterocycloalkenyl, C_{6-10} aryl, C_{7-11} aralkyl
and 5-10 membered heteroaryl groups is optionally substituted with 1, 2, 3, 4
or 5 R^f substituents.

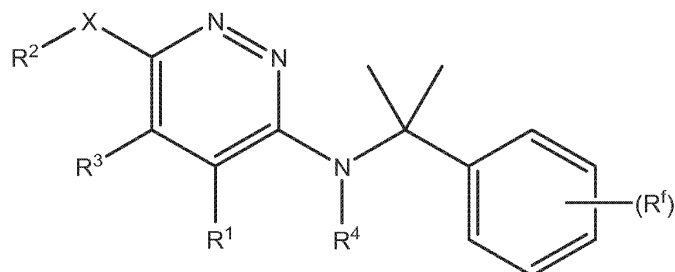
In some embodiments, the compounds are of Formula VI, or a pharmaceutically acceptable salt thereof:



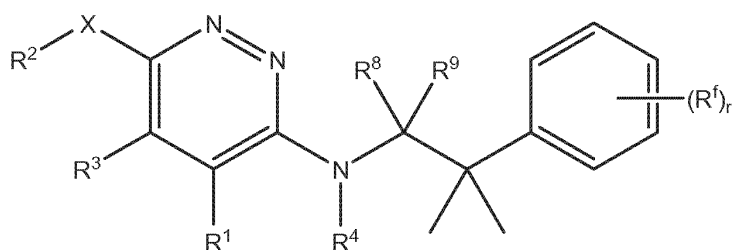
Formula VI

wherein r is 0, 1, 2, 3 or 4, and R^1 , R^2 , R^3 , R^4 , R^5 , R^6 , R^8 , R^9 , R^f , X and m are as defined herein.

In some embodiments, the compounds are of Formula VII(a) or VII(b), or a pharmaceutically acceptable salt thereof:



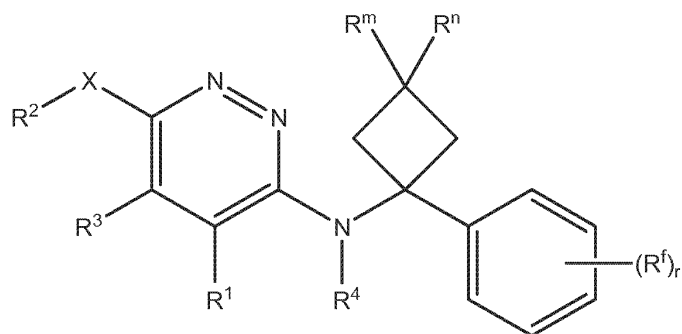
Formula VII(a)



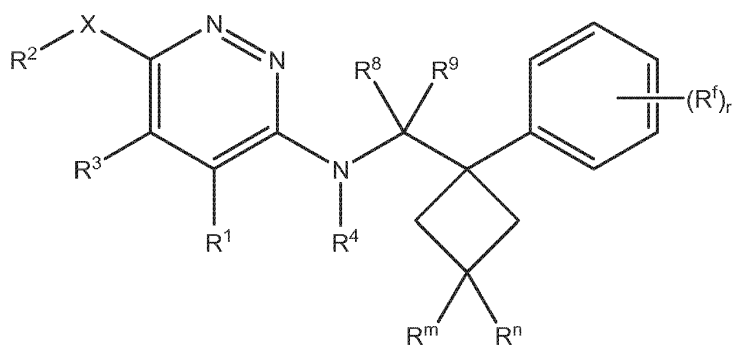
Formula VII(b)

wherein r is 0, 1, 2, 3 or 4, and R^1 , R^2 , R^3 , R^4 , R^8 , R^9 , R^f and X are as defined herein.

In some embodiments, the compounds are of Formula VIII(a) or VIII(b), or a pharmaceutically acceptable salt thereof:



Formula VIII(a)



Formula VIII(b)

wherein R^m and R^n are each independently selected from hydrogen, halogen and C_{1-6} alkyl; r is 0, 1, 2, 3 or 4; and R^1 , R^2 , R^3 , R^4 , R^8 , R^9 , R^f and X are as defined herein.

In some embodiments of compounds of Formula VIII(a) or VIII(b), R^m

and Rⁿ are each hydrogen.

In some embodiments compounds of Formula VIII(a) or VIII(b), R^m and Rⁿ are each halogen.

In some embodiments compounds of Formula VIII(a) or VIII(b), R^m and Rⁿ are each fluorine.

In some embodiments compounds of Formula VIII(a) or VIII(b), one of R^m and Rⁿ is hydrogen and the other is halogen. In some embodiments of such compounds, the halogen and the phenyl ring are in a *trans* configuration with respect to one another on the cyclobutyl ring. In some embodiments of such compounds, the halogen and the phenyl ring are in a *cis* configuration with respect to one another on the cyclobutyl ring.

In some embodiments compounds of Formula VIII(a) or VIII(b), one of R^m and Rⁿ is hydrogen and the other is fluorine. In some embodiments of such compounds, the fluorine and the phenyl ring are in a *trans* configuration with respect to one another on the cyclobutyl ring. In some embodiments of such compounds, the fluorine and the phenyl ring are in a *cis* configuration with respect to one another on the cyclobutyl ring.

In some embodiments of compounds of Formula I, II, III, IV(a), IV(b), V(a) or V(b), R⁷ is selected from phenyl, 2-fluorophenyl, 3-fluorophenyl, 2, 4-difluorophenyl, 3,4-difluorophenyl, 3,5-difluorophenyl, 4-fluorophenyl, 2-chlorophenyl, 3-chlorophenyl, 4-chlorophenyl, 2, 4-dichlorophenyl, 3,4-dichlorophenyl, 3,5-dichlorophenyl, 2-methylphenyl, 3-methylphenyl, 2, 4-dimethylphenyl, 3,4-dimethylphenyl, 3,5-dimethylphenyl, 2-(hydroxymethyl)phenyl, 3-(hydroxymethyl)phenyl, 4-(hydroxymethyl)phenyl, 2-(aminomethyl)phenyl, 3-(aminomethyl)phenyl, 4-(aminomethyl)phenyl, 2-phenol, 3-phenol, 4-phenol, 2-methoxyphenyl, 3-methoxyphenyl, 4-methoxyphenyl, 2-difluoromethoxyphenyl, 3-difluoromethoxyphenyl, 4-difluoromethoxyphenyl, 2-trifluoromethoxyphenyl, 3-trifluoromethoxyphenyl, 4-trifluoromethoxyphenyl, 2-cyanophenyl, 3-cyanophenyl, 4-cyanophenyl, 2-benzamine, 3-benzamide, 4-benzamide, N-methyl-2-benzamine, N-methyl-3-benzamide, N-methyl-4-benzamide, N,N-dimethyl-2-benzamine, N,N-dimethyl-3-benzamide, and N,N-dimethyl-4-benzamide.

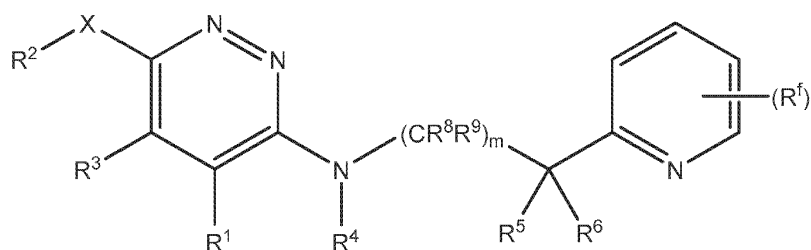
In some embodiments of compounds of Formula I, II, III, IV(a), IV(b), V(a) or V(b), R^7 is 5-10 membered heteroaryl optionally substituted with 1, 2, 3, 4 or 5 substituents selected from halogen, CN, oxo, OR^a , $OC(O)R^a$, $OC(O)OR^a$, $OC(O)NR^bR^c$, NR^bR^c , $NR^dC(O)R^a$, $NR^dC(O)OR^a$, $NR^dC(O)NR^bR^c$, $NR^dC(O)C(O)NR^bR^c$, $NR^dC(S)R^a$, $NR^dC(S)OR^a$, $NR^dC(S)NR^bR^c$, $NR^dC(NR^e)NR^bR^c$, $NR^dS(O)R^a$, $NR^dSO_2R^a$, $NR^dSO_2NR^bR^c$, $C(O)R^a$, $C(O)OR^a$, $C(O)NR^bR^c$, $C(S)R^a$, $C(S)OR^a$, $C(S)NR^bR^c$, $C(NR^e)NR^bR^c$, SR^a , $S(O)R^a$, SO_2R^a , $SO_2NR^bR^c$, C_{1-6} alkyl, C_{1-6} haloalkyl, C_{2-6} alkenyl, C_{2-6} alkynyl, C_{3-8} cycloalkyl, C_{3-8} cycloalkenyl, 3-8 membered heterocycloalkyl, 3-8 membered heterocycloalkenyl, C_{6-10} aryl, C_{7-11} aralkyl, and 5-10 membered heteroaryl, wherein each of the C_{1-6} alkyl, C_{2-6} alkenyl, C_{2-6} alkynyl, C_{3-8} cycloalkyl, C_{3-8} cycloalkenyl, 3-8 membered heterocycloalkyl, 3-8 membered heterocycloalkenyl, C_{6-10} aryl, C_{7-11} aralkyl and 5-10 membered heteroaryl groups is optionally substituted with 1, 2, 3, 4 or 5 R^f substituents.

In some embodiments of compounds of Formula I, II, III, IV(a), IV(b), V(a) or V(b), R^7 is pyridyl optionally substituted with 1, 2, 3, 4 or 5 substituents selected from halogen, CN, oxo, OR^a , $OC(O)R^a$, $OC(O)OR^a$, $OC(O)NR^bR^c$, NR^bR^c , $NR^dC(O)R^a$, $NR^dC(O)OR^a$, $NR^dC(O)NR^bR^c$, $NR^dC(O)C(O)NR^bR^c$, $NR^dC(S)R^a$, $NR^dC(S)OR^a$, $NR^dC(S)NR^bR^c$, $NR^dC(NR^e)NR^bR^c$, $NR^dS(O)R^a$, $NR^dSO_2R^a$, $NR^dSO_2NR^bR^c$, $C(O)R^a$, $C(O)OR^a$, $C(O)NR^bR^c$, $C(S)R^a$, $C(S)OR^a$, $C(S)NR^bR^c$, $C(NR^e)NR^bR^c$, SR^a , $S(O)R^a$, SO_2R^a , $SO_2NR^bR^c$, C_{1-6} alkyl, C_{1-6} haloalkyl, C_{2-6} alkenyl, C_{2-6} alkynyl, C_{3-8} cycloalkyl, C_{3-8} cycloalkenyl, 3-8 membered heterocycloalkyl, 3-8 membered heterocycloalkenyl, C_{6-10} aryl, C_{7-11} aralkyl, and 5-10 membered heteroaryl, wherein each of the C_{1-6} alkyl, C_{2-6} alkenyl, C_{2-6} alkynyl, C_{3-8} cycloalkyl, C_{3-8} cycloalkenyl, 3-8 membered heterocycloalkyl, 3-8 membered heterocycloalkenyl, C_{6-10} aryl, C_{7-11} aralkyl and 5-10 membered heteroaryl groups is optionally substituted with 1, 2, 3, 4 or 5 R^f substituents.

In some embodiments of compounds of Formula I, II, III, IV(a), IV(b), V(a) or V(b), R^7 is selected from 2-pyridyl, 3-pyridyl and 4-pyridyl, each optionally substituted with 1, 2, 3, 4 or 5 substituents selected from halogen, CN, oxo, OR^a , $OC(O)R^a$, $OC(O)OR^a$, $OC(O)NR^bR^c$, NR^bR^c , $NR^dC(O)R^a$, $NR^dC(O)OR^a$, $NR^dC(O)NR^bR^c$, $NR^dC(O)C(O)NR^bR^c$, $NR^dC(S)R^a$,

$\text{NR}^d\text{C}(\text{S})\text{OR}^a$, $\text{NR}^d\text{C}(\text{S})\text{NR}^b\text{R}^c$, $\text{NR}^d\text{C}(\text{NR}^e)\text{NR}^b\text{R}^c$, $\text{NR}^d\text{S}(\text{O})\text{R}^a$, $\text{NR}^d\text{SO}_2\text{R}^a$, $\text{NR}^d\text{SO}_2\text{NR}^b\text{R}^c$, $\text{C}(\text{O})\text{R}^a$, $\text{C}(\text{O})\text{OR}^a$, $\text{C}(\text{O})\text{NR}^b\text{R}^c$, $\text{C}(\text{S})\text{R}^a$, $\text{C}(\text{S})\text{OR}^a$, $\text{C}(\text{S})\text{NR}^b\text{R}^c$, $\text{C}(\text{NR}^e)\text{NR}^b\text{R}^c$, SR^a , $\text{S}(\text{O})\text{R}^a$, SO_2R^a , $\text{SO}_2\text{NR}^b\text{R}^c$, C_{1-6} alkyl, C_{1-6} haloalkyl, C_{2-6} alkenyl, C_{2-6} alkynyl, C_{3-6} cycloalkyl, C_{3-6} cycloalkenyl, 3-6 membered heterocycloalkyl, 3-6 membered heterocycloalkenyl, phenyl, naphthyl, C_{7-11} aralkyl, and 5-10 membered heteroaryl, wherein each of the C_{1-6} alkyl, C_{2-6} alkenyl, C_{2-6} alkynyl, C_{3-8} cycloalkyl, C_{3-8} cycloalkenyl, 3-8 membered heterocycloalkyl, 3-8 membered heterocycloalkenyl, C_{6-10} aryl, C_{7-11} aralkyl and 5-10 membered heteroaryl groups is optionally substituted with 1, 2, 3, 4 or 5 R^f substituents.

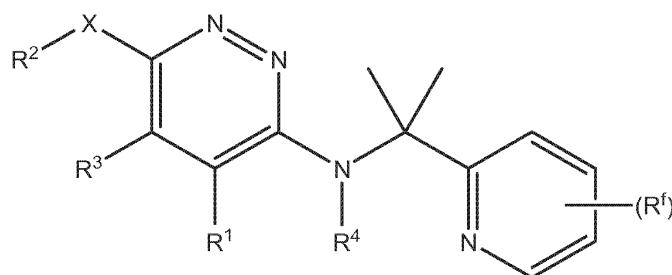
In some embodiments, the compounds are of Formula IX, or a pharmaceutically acceptable salt thereof:



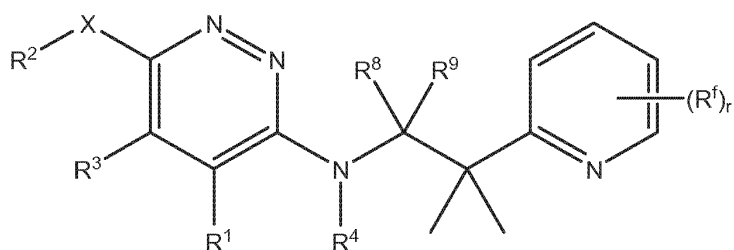
Formula IX

wherein r is 0, 1, 2, 3 or 4, and R^1 , R^2 , R^3 , R^4 , R^5 , R^6 , R^8 , R^9 , R^f , X and m are as defined herein.

In some embodiments, the compounds are of Formula X(a) or X(b), or a pharmaceutically acceptable salt thereof:



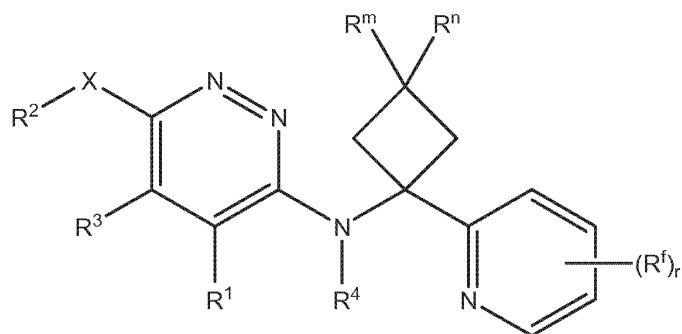
Formula X(a)



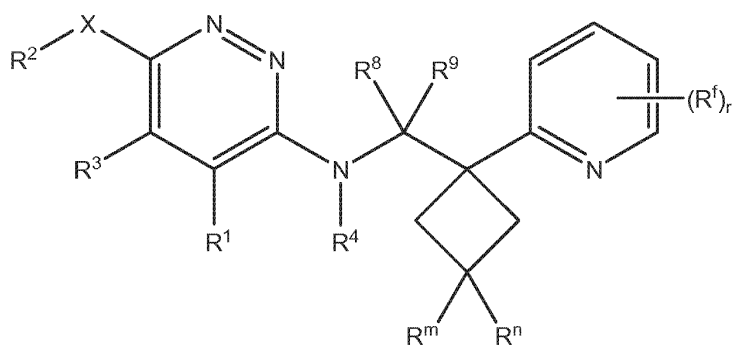
Formula X(b)

wherein *r* is 0, 1, 2, 3 or 4, and R¹, R², R³, R⁴, R⁸, R⁹, R^f and X are as defined herein.

In some embodiments, the compounds are of Formula XI(a) or XI(b), or a pharmaceutically acceptable salt thereof:



Formula XI(a)



Formula XI(b)

wherein R^m and Rⁿ are each independently selected from hydrogen, halogen and C₁₋₆ alkyl; *r* is 0, 1, 2, 3 or 4; and R¹, R², R³, R⁴, R⁸, R⁹, R^f and X are as defined herein.

In some embodiments of compounds of Formula XI(a) or XI(b), R^m and

Rⁿ are each hydrogen.

In some embodiments compounds of Formula XI(a) or XI(b), R^m and Rⁿ are each halogen.

In some embodiments compounds of Formula XI(a) or XI(b), R^m and Rⁿ are each fluorine.

In some embodiments compounds of Formula XI(a) or XI(b), one of R^m and Rⁿ is hydrogen and the other is halogen. In some embodiments of such compounds, the halogen and the pyridyl ring are in a *trans* configuration with respect to one another on the cyclobutyl ring. In some embodiments of such compounds, the halogen and the pyridyl ring are in a *cis* configuration with respect to one another on the cyclobutyl ring.

In some embodiments compounds of Formula XI(a) or XI(b), one of R^m and Rⁿ is hydrogen and the other is fluorine. In some embodiments of such compounds, the fluorine and the pyridyl ring are in a *trans* configuration with respect to one another on the cyclobutyl ring. In some embodiments of such compounds, the fluorine and the pyridyl ring are in a *cis* configuration with respect to one another on the cyclobutyl ring.

In some embodiments of compounds of Formula I, II, III, IV(a), IV(b), V(a) or V(b), R⁷ is selected from pyrid-2-yl, 3-fluoro-pyrid-2-yl, 4-fluoro-pyrid-2-yl, 5-fluoro-pyrid-2-yl, 6-fluoro-pyrid-2-yl, 3-chloro-pyrid-2-yl, 4-chloro-pyrid-2-yl, 5-chloro-pyrid-2-yl, 6-chloro-pyrid-2-yl, 3-cyano-pyrid-2-yl, 4-cyano-pyrid-2-yl, 5-cyano-pyrid-2-yl, 6-cyano-pyrid-2-yl, 3-methyl-pyrid-2-yl, 4-methyl-pyrid-2-yl, 5-methyl-pyrid-2-yl, 6-methyl-pyrid-2-yl, 3-difluoromethyl-pyrid-2-yl, 4-difluoromethyl-pyrid-2-yl, 5-difluoromethyl-pyrid-2-yl, 6-difluoromethyl-pyrid-2-yl, 3-trifluoromethyl-pyrid-2-yl, 4-trifluoromethyl-pyrid-2-yl, 5-trifluoromethyl-pyrid-2-yl, 6-trifluoromethyl-pyrid-2-yl, 3-hydroxymethyl-pyrid-2-yl, 4-hydroxymethyl-pyrid-2-yl, 5-hydroxymethyl-pyrid-2-yl, 6-hydroxymethyl-pyrid-2-yl, 3-aminomethyl-pyrid-2-yl, 4-aminomethyl-pyrid-2-yl, 5-aminomethyl-pyrid-2-yl, 6-aminomethyl-pyrid-2-yl, 3-hydroxy-pyrid-2-yl, 4-hydroxy-pyrid-2-yl, 5-hydroxy-pyrid-2-yl, 6-hydroxy-pyrid-2-yl, 3-methoxy-pyrid-2-yl, 4-methoxy-pyrid-2-yl, 5-methoxy-pyrid-2-yl, 6-methoxy-pyrid-2-yl, 3-difluoromethoxy-pyrid-2-yl, 4-difluoromethoxy-pyrid-2-yl, 5-difluoromethoxy-

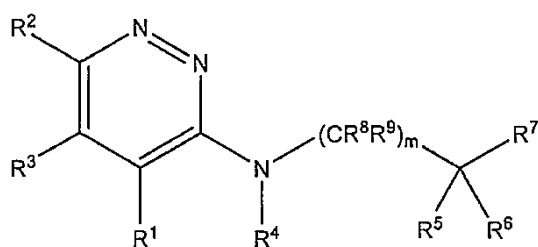
pyrid-2-yl, 6-difluoromethoxy-pyrid-2-yl, 3-trifluoromethoxy-pyrid-2-yl, 4-trifluoromethoxy-pyrid-2-yl, 5-trifluoromethoxy-pyrid-2-yl, 6-trifluoromethoxy-pyrid-2-yl, 3-methylthio-pyrid-2-yl, 4-methylthio-pyrid-2-yl, 5-methylthio-pyrid-2-yl, 6-methylthio-pyrid-2-yl, 3-carboxamide-pyrid-2-yl, 4-carboxamide-pyrid-2-yl, 5-carboxamide-pyrid-2-yl, 6-carboxamide-pyrid-2-yl and 3-fluoro-6-methyl-pyrid-2-yl.

In some embodiments of compounds of Formula I, II, III, IV(a), IV(b), V(a) or V(b), R^7 is selected from pyrid-3-yl, 2-fluoro-pyrid-3-yl, 4-fluoro-pyrid-3-yl, 5-fluoro-pyrid-3-yl, 6-fluoro-pyrid-3-yl, 2-chloro-pyrid-3-yl, 4-chloro-pyrid-3-yl, 5-chloro-pyrid-3-yl, 6-chloro-pyrid-3-yl, 2-cyano-pyrid-3-yl, 4-cyano-pyrid-3-yl, 5-cyano-pyrid-3-yl, 6-cyano-pyrid-3-yl, 2-methyl-pyrid-3-yl, 4-methyl-pyrid-3-yl, 5-methyl-pyrid-3-yl, 6-methyl-pyrid-3-yl, 2-difluoromethyl-pyrid-3-yl, 4-difluoromethyl-pyrid-3-yl, 5-difluoromethyl-pyrid-3-yl, 6-difluoromethyl-pyrid-3-yl, 2-trifluoromethyl-pyrid-3-yl, 4-trifluoromethyl-pyrid-3-yl, 5-trifluoromethyl-pyrid-3-yl, 6-trifluoromethyl-pyrid-3-yl, 2-hydroxymethyl-pyrid-3-yl, 4-hydroxymethyl-pyrid-3-yl, 5-hydroxymethyl-pyrid-3-yl, 6-hydroxymethyl-pyrid-3-yl, 2-aminomethyl-pyrid-3-yl, 4-aminomethyl-pyrid-3-yl, 5-aminomethyl-pyrid-3-yl, 6-aminomethyl-pyrid-3-yl, 2-hydroxy-pyrid-3-yl, 4-hydroxy-pyrid-3-yl, 5-hydroxy-pyrid-3-yl, 6-hydroxy-pyrid-3-yl, 2-methoxy-pyrid-3-yl, 4-methoxy-pyrid-3-yl, 5-methoxy-pyrid-3-yl, 6-methoxy-pyrid-3-yl, 2-difluoromethoxy-pyrid-3-yl, 4-difluoromethoxy-pyrid-3-yl, 5-difluoromethoxy-pyrid-3-yl, 6-difluoromethoxy-pyrid-3-yl, 2-trifluoromethoxy-pyrid-3-yl, 4-trifluoromethoxy-pyrid-3-yl, 5-trifluoromethoxy-pyrid-3-yl, 6-trifluoromethoxy-pyrid-3-yl, 2-methylthio-pyrid-3-yl, 4-methylthio-pyrid-3-yl, 5-methylthio-pyrid-3-yl, 6-methylthio-pyrid-3-yl, 2-carboxamide-pyrid-3-yl, 4-carboxamide-pyrid-3-yl, 5-carboxamide-pyrid-3-yl and 6-carboxamide-pyrid-3-yl.

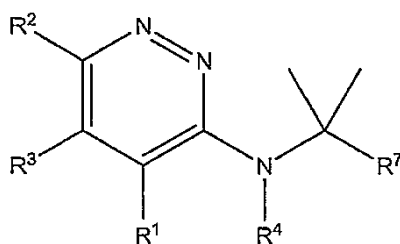
In some embodiments of compounds of Formula I, II, III, IV(a), IV(b), V(a), V(b), VI, VII(a), VII(b), VIII(a), VIII(b), IX, X(a), X(b), XI(a) or XI(b), X is selected from a bond, $-(CH_2)_p-$, $-(CH_2)_pC(O)(CH_2)_{q-}$, $-(CH_2)_pO(CH_2)_{q-}$, $-(CH_2)_pS(CH_2)_{q-}$, $-(CH_2)_pNR^d(CH_2)_{q-}$, $-(CH_2)_pC(O)O(CH_2)_{q-}$, $-(CH_2)_pOC(O)(CH_2)_{q-}$, $-(CH_2)_pNR^dC(O)(CH_2)_{q-}$, $-(CH_2)_pC(O)NR^d(CH_2)_{q-}$, $-(CH_2)_pNR^dC(O)NR^d(CH_2)_{q-}$, $-(CH_2)_pNR^dSO_2(CH_2)_{q-}$, and $-(CH_2)_pSO_2NR^d(CH_2)_{q-}$.

In some embodiments of compounds of Formula I, II, III, IV(a), IV(b), V(a), V(b), VI, VII(a), VII(b), VIII(a), VIII(b), IX, X(a), X(b), XI(a) or XI(b), X is a bond.

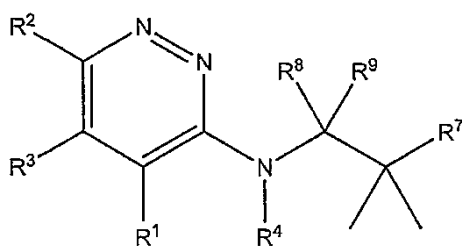
In some embodiments, the compound is of Formula XII(a), XII(b), XII(c), XII(d), XII(e), XII(f), XII(g), XII(h), XII(i), XII(j), XII(k), XII(l), XII(m), XII(n) or XII(o), or a pharmaceutically acceptable salt thereof:



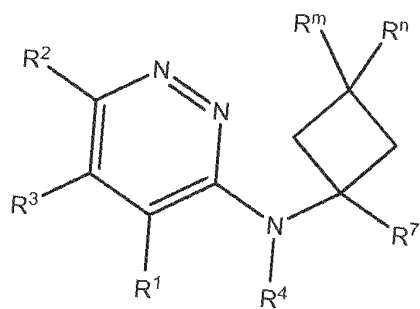
Formula XII(a)



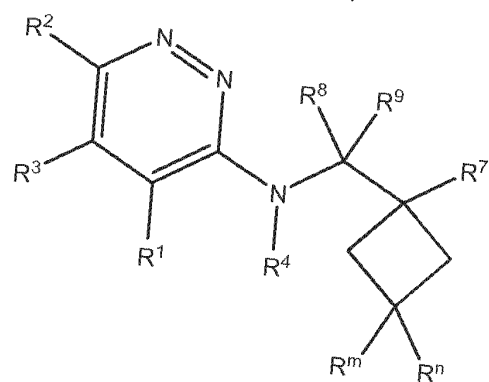
Formula XII(b)



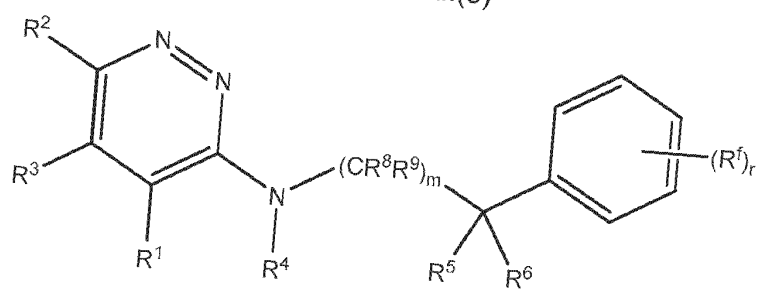
Formula XII(c)



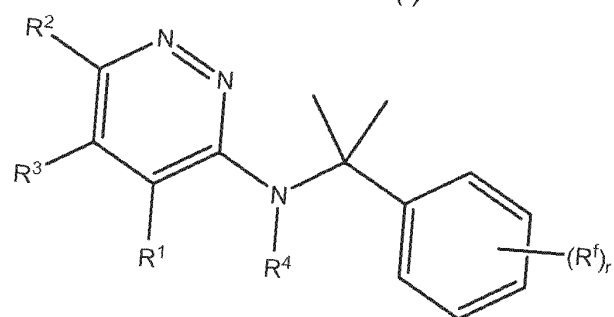
Formula XII(d)



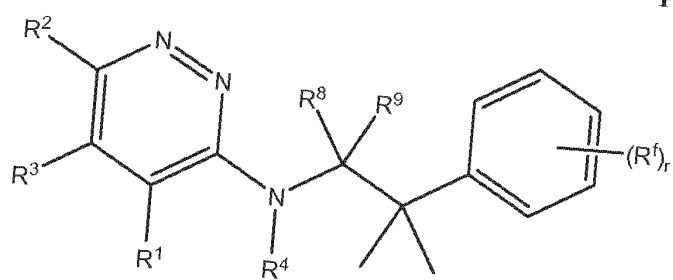
Formula XII(e)



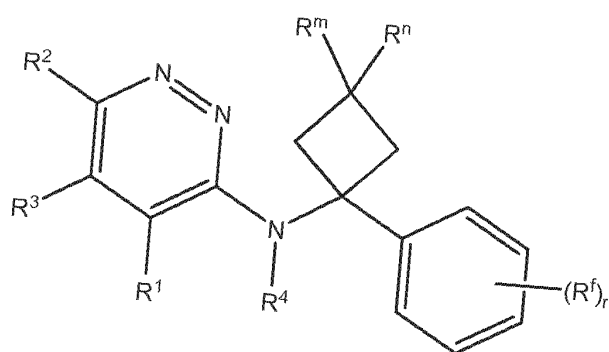
Formula XII(f)



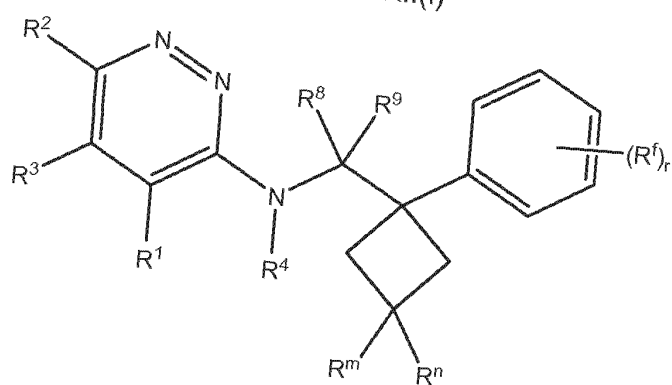
Formula XII(g)



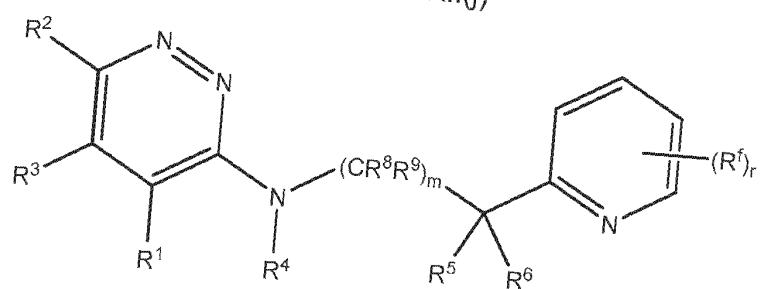
Formula XII(h)



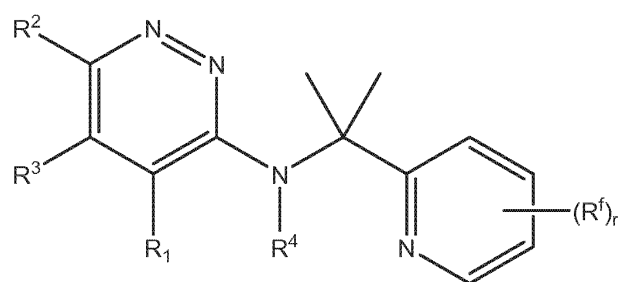
Formula XII(i)



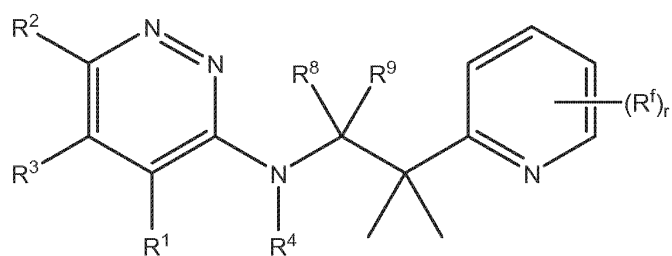
Formula XII(j)



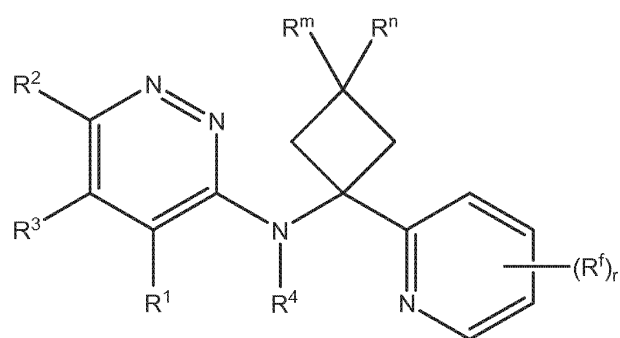
Formula XII(k)



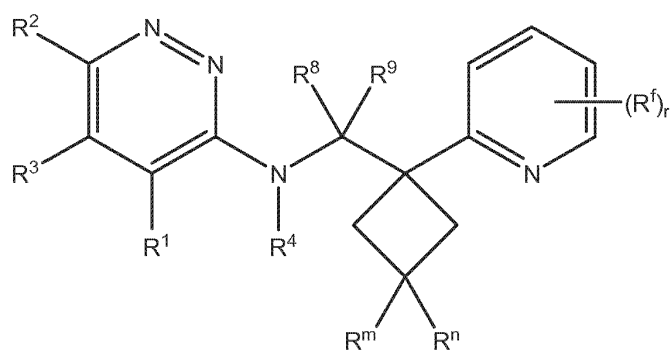
Formula XII(l)



Formula XII(m)



Formula XII(n)



Formula XII(o)

wherein R^1 , R^2 , R^3 , R^4 , R^5 , R^6 , R^7 , R^8 , R^9 , R^f , R^m , R^n , m and r are as defined herein.

In some embodiments of compounds of Formula XII(c), R^7 is not piperidinyl or morpholinyl. In some embodiments of compounds of Formula XII(c), when R^2 is optionally substituted phenyl, then R^7 is not piperidinyl or morpholinyl.

In some embodiments of compounds of Formula I, II, III, IV(a), IV(b), V(a), V(b), VI, VII(a), VII(b), VIII(a), VIII(b), IX, X(a), X(b), XI(a) or XI(b), X is -O-.

In some embodiments of compounds of Formula I, II, III, IV(a), IV(b), V(a), V(b), VI, VII(a), VII(b), VIII(a), VIII(b), IX, X(a), X(b), XI(a) or XI(b), X is selected from $-\text{CH}_2\text{O}-$ and $-\text{OCH}_2-$.

In some embodiments of compounds of Formula I, II, III, IV(a), IV(b), V(a), V(b), VI, VII(a), VII(b), VIII(a), VIII(b), IX, X(a), X(b), XI(a) or XI(b), X is NR^d .

In some embodiments of compounds of Formula I, II, III, IV(a), IV(b), V(a), V(b), VI, VII(a), VII(b), VIII(a), VIII(b), IX, X(a), X(b), XI(a) or XI(b), X is selected from $-\text{CH}_2\text{NR}^d-$ and $-\text{NR}^d\text{CH}_2-$.

In some embodiments of compounds of Formula I, II, III, IV(a), IV(b), V(a), V(b), VI, VII(a), VII(b), VIII(a), VIII(b), IX, X(a), X(b), XI(a) or XI(b), X is selected from $-\text{NR}^d\text{C}(\text{O})-$ and $-\text{C}(\text{O})\text{NR}^d-$.

In some embodiments of compounds of Formula I, II, III, IV(a), IV(b), V(a), V(b), VI, VII(a), VII(b), VIII(a), VIII(b), IX, X(a), X(b), XI(a) or XI(b), X is selected from $-\text{CH}_2\text{NR}^d\text{C}(\text{O})-$ and $-\text{C}(\text{O})\text{NR}^d\text{CH}_2-$.

In some embodiments of compounds of Formula I, II, III, IV(a), IV(b), V(a), V(b), VI, VII(a), VII(b), VIII(a), VIII(b), IX, X(a), X(b), XI(a), XI(b), XII(a), XII(b), XII(c), XII(d), XII(e), XII(f), XII(g), XII(h), XII(i), XII(j), XII(k), XII(l), XII(m), XII(n) or XII(o), R^2 is selected from C_{3-8} cycloalkyl, C_{3-8} cycloalkenyl, 3-8 membered heterocycloalkyl, 3-8 membered heterocycloalkenyl, C_{6-10} aryl and 5-10 membered heteroaryl, each optionally substituted with 1, 2, 3, 4 or 5 substituents selected from halogen, CN, oxo, $(\text{CH}_2)_n\text{OR}^a$, $(\text{CH}_2)_n\text{OC}(\text{O})\text{R}^a$, $(\text{CH}_2)_n\text{OC}(\text{O})\text{OR}^a$, $(\text{CH}_2)_n\text{OC}(\text{O})\text{NR}^b\text{R}^c$, $(\text{CH}_2)_n\text{NR}^b\text{R}^c$, $(\text{CH}_2)_n\text{NR}^d\text{C}(\text{O})\text{R}^a$, $(\text{CH}_2)_n\text{NR}^d\text{C}(\text{O})\text{OR}^a$, $(\text{CH}_2)_n\text{NR}^d\text{C}(\text{O})\text{NR}^b\text{R}^c$, $(\text{CH}_2)_n\text{NR}^d\text{C}(\text{O})\text{C}(\text{O})\text{NR}^b\text{R}^c$, $(\text{CH}_2)_n\text{NR}^d\text{C}(\text{S})\text{R}^a$, $(\text{CH}_2)_n\text{NR}^d\text{C}(\text{S})\text{OR}^a$, $(\text{CH}_2)_n\text{NR}^d\text{C}(\text{S})\text{NR}^b\text{R}^c$,

$(\text{CH}_2)_n\text{NR}^d\text{C}(\text{NR}^e)\text{NR}^b\text{R}^c$, $(\text{CH}_2)_n\text{NR}^d\text{S}(\text{O})\text{R}^a$, $(\text{CH}_2)_n\text{NR}^d\text{SO}_2\text{R}^a$,
 $(\text{CH}_2)_n\text{NR}^d\text{SO}_2\text{NR}^b\text{R}^c$, $(\text{CH}_2)_n\text{C}(\text{O})\text{R}^a$, $(\text{CH}_2)_n\text{C}(\text{O})\text{OR}^a$, $(\text{CH}_2)_n\text{C}(\text{O})\text{NR}^b\text{R}^c$,
 $(\text{CH}_2)_n\text{C}(\text{S})\text{R}^a$, $(\text{CH}_2)_n\text{C}(\text{S})\text{OR}^a$, $(\text{CH}_2)_n\text{C}(\text{S})\text{NR}^b\text{R}^c$, $(\text{CH}_2)_n\text{C}(\text{NR}^e)\text{NR}^b\text{R}^c$,
 $(\text{CH}_2)_n\text{SR}^a$, $(\text{CH}_2)_n\text{S}(\text{O})\text{R}^a$, $(\text{CH}_2)_n\text{SO}_2\text{R}^a$, $(\text{CH}_2)_n\text{SO}_2\text{NR}^b\text{R}^c$, C_{1-6} alkyl, C_{1-6}
haloalkyl, C_{2-6} alkenyl, C_{2-6} alkynyl, $(\text{CH}_2)_n\text{C}_{3-8}$ cycloalkyl, $(\text{CH}_2)_n$ 3-8
membered heterocycloalkyl, $(\text{CH}_2)_n$ phenyl, $(\text{CH}_2)_n$ naphthyl and $(\text{CH}_2)_n$ 5-10
membered heteroaryl, wherein each of the C_{1-6} alkyl, C_{2-6} alkenyl, C_{2-6} alkynyl,
 $(\text{CH}_2)_n\text{C}_{3-8}$ cycloalkyl, $(\text{CH}_2)_n$ 3-8 membered heterocycloalkyl, $(\text{CH}_2)_n$ phenyl,
 $(\text{CH}_2)_n$ naphthyl and $(\text{CH}_2)_n$ 5-10 membered heteroaryl groups is optionally
substituted with 1, 2, 3, 4 or 5 R^f substituents.

In some embodiments of compounds of Formula I, II, III, IV(a), IV(b),
V(a), V(b), VI, VII(a), VII(b), VIII(a), VIII(b), IX, X(a), X(b), XI(a), XI(b), XII(a),
XII(b), XII(c), XII(d), XII(e), XII(f), XII(g), XII(h), XII(i), XII(j), XII(k), XII(l), XII(m),
XII(n) or XII(o), R^2 is phenyl optionally substituted with 1, 2, 3, 4 or 5
substituents selected from halogen, CN, $(\text{CH}_2)_n\text{OR}^a$, $(\text{CH}_2)_n\text{OC}(\text{O})\text{R}^a$,
 $(\text{CH}_2)_n\text{OC}(\text{O})\text{OR}^a$, $(\text{CH}_2)_n\text{OC}(\text{O})\text{NR}^b\text{R}^c$, $(\text{CH}_2)_n\text{NR}^b\text{R}^c$, $(\text{CH}_2)_n\text{NR}^d\text{C}(\text{O})\text{R}^a$,
 $(\text{CH}_2)_n\text{NR}^d\text{C}(\text{O})\text{OR}^a$, $(\text{CH}_2)_n\text{NR}^d\text{C}(\text{O})\text{NR}^b\text{R}^c$, $(\text{CH}_2)_n\text{NR}^d\text{C}(\text{O})\text{C}(\text{O})\text{NR}^b\text{R}^c$,
 $(\text{CH}_2)_n\text{NR}^d\text{C}(\text{S})\text{R}^a$, $(\text{CH}_2)_n\text{NR}^d\text{C}(\text{S})\text{OR}^a$, $(\text{CH}_2)_n\text{NR}^d\text{C}(\text{S})\text{NR}^b\text{R}^c$,
 $(\text{CH}_2)_n\text{NR}^d\text{C}(\text{NR}^e)\text{NR}^b\text{R}^c$, $(\text{CH}_2)_n\text{NR}^d\text{S}(\text{O})\text{R}^a$, $(\text{CH}_2)_n\text{NR}^d\text{SO}_2\text{R}^a$,
 $(\text{CH}_2)_n\text{NR}^d\text{SO}_2\text{NR}^b\text{R}^c$, $(\text{CH}_2)_n\text{C}(\text{O})\text{R}^a$, $(\text{CH}_2)_n\text{C}(\text{O})\text{OR}^a$, $(\text{CH}_2)_n\text{C}(\text{O})\text{NR}^b\text{R}^c$,
 $(\text{CH}_2)_n\text{C}(\text{S})\text{R}^a$, $(\text{CH}_2)_n\text{C}(\text{S})\text{OR}^a$, $(\text{CH}_2)_n\text{C}(\text{S})\text{NR}^b\text{R}^c$, $(\text{CH}_2)_n\text{C}(\text{NR}^e)\text{NR}^b\text{R}^c$,
 $(\text{CH}_2)_n\text{SR}^a$, $(\text{CH}_2)_n\text{S}(\text{O})\text{R}^a$, $(\text{CH}_2)_n\text{SO}_2\text{R}^a$, $(\text{CH}_2)_n\text{SO}_2\text{NR}^b\text{R}^c$, C_{1-6} alkyl, C_{1-6}
haloalkyl, C_{2-6} alkenyl, C_{2-6} alkynyl, $(\text{CH}_2)_n\text{C}_{3-8}$ cycloalkyl, $(\text{CH}_2)_n$ 3-8
membered heterocycloalkyl, $(\text{CH}_2)_n$ phenyl, $(\text{CH}_2)_n$ naphthyl and $(\text{CH}_2)_n$ 5-10
membered heteroaryl, wherein each of the C_{1-6} alkyl, C_{2-6} alkenyl, C_{2-6} alkynyl,
 $(\text{CH}_2)_n\text{C}_{3-8}$ cycloalkyl, $(\text{CH}_2)_n$ 3-8 membered heterocycloalkyl, $(\text{CH}_2)_n$ phenyl,
 $(\text{CH}_2)_n$ naphthyl and $(\text{CH}_2)_n$ 5-10 membered heteroaryl groups is optionally
substituted with 1, 2, 3, 4 or 5 R^f substituents.

In some embodiments of compounds of Formula I, II, III, IV(a), IV(b),
V(a), V(b), VI, VII(a), VII(b), VIII(a), VIII(b), IX, X(a), X(b), XI(a), XI(b), XII(a),
XII(b), XII(c), XII(d), XII(e), XII(f), XII(g), XII(h), XII(i), XII(j), XII(k), XII(l), XII(m),
XII(n) or XII(o), R^2 is phenyl substituted with 1, 2, 3, 4 or 5 substituents
selected from halogen, CN, $(\text{CH}_2)_n\text{OR}^a$, $(\text{CH}_2)_n\text{OC}(\text{O})\text{R}^a$, $(\text{CH}_2)_n\text{OC}(\text{O})\text{OR}^a$,

$(\text{CH}_2)_n\text{OC}(\text{O})\text{NR}^b\text{R}^c$, $(\text{CH}_2)_n\text{NR}^b\text{R}^c$, $(\text{CH}_2)_n\text{NR}^d\text{C}(\text{O})\text{R}^a$, $(\text{CH}_2)_n\text{NR}^d\text{C}(\text{O})\text{OR}^a$,
 $(\text{CH}_2)_n\text{NR}^d\text{C}(\text{O})\text{NR}^b\text{R}^c$, $(\text{CH}_2)_n\text{NR}^d\text{C}(\text{O})\text{C}(\text{O})\text{NR}^b\text{R}^c$, $(\text{CH}_2)_n\text{NR}^d\text{C}(\text{S})\text{R}^a$,
 $(\text{CH}_2)_n\text{NR}^d\text{C}(\text{S})\text{OR}^a$, $(\text{CH}_2)_n\text{NR}^d\text{C}(\text{S})\text{NR}^b\text{R}^c$, $(\text{CH}_2)_n\text{NR}^d\text{C}(\text{NR}^e)\text{NR}^b\text{R}^c$,
 $(\text{CH}_2)_n\text{NR}^d\text{S}(\text{O})\text{R}^a$, $(\text{CH}_2)_n\text{NR}^d\text{SO}_2\text{R}^a$, $(\text{CH}_2)_n\text{NR}^d\text{SO}_2\text{NR}^b\text{R}^c$, $(\text{CH}_2)_n\text{C}(\text{O})\text{R}^a$,
 $(\text{CH}_2)_n\text{C}(\text{O})\text{OR}^a$, $(\text{CH}_2)_n\text{C}(\text{O})\text{NR}^b\text{R}^c$, $(\text{CH}_2)_n\text{C}(\text{S})\text{R}^a$, $(\text{CH}_2)_n\text{C}(\text{S})\text{OR}^a$,
 $(\text{CH}_2)_n\text{C}(\text{S})\text{NR}^b\text{R}^c$, $(\text{CH}_2)_n\text{C}(\text{NR}^e)\text{NR}^b\text{R}^c$, $(\text{CH}_2)_n\text{SR}^a$, $(\text{CH}_2)_n\text{S}(\text{O})\text{R}^a$,
 $(\text{CH}_2)_n\text{SO}_2\text{R}^a$, $(\text{CH}_2)_n\text{SO}_2\text{NR}^b\text{R}^c$, C_{1-6} alkyl, C_{1-6} haloalkyl, C_{2-6} alkenyl, C_{2-6} alkynyl,
 $(\text{CH}_2)_n\text{C}_{3-8}$ cycloalkyl, $(\text{CH}_2)_n$ 3-8 membered heterocycloalkyl,
 $(\text{CH}_2)_n$ phenyl, $(\text{CH}_2)_n$ naphthyl and $(\text{CH}_2)_n$ 5-10 membered heteroaryl, wherein
each of the C_{1-6} alkyl, C_{2-6} alkenyl, C_{2-6} alkynyl, $(\text{CH}_2)_n\text{C}_{3-8}$ cycloalkyl, $(\text{CH}_2)_n$ 3-8
membered heterocycloalkyl, $(\text{CH}_2)_n$ phenyl, $(\text{CH}_2)_n$ naphthyl and $(\text{CH}_2)_n$ 5-10
membered heteroaryl groups is optionally substituted with 1, 2, 3, 4 or 5 R^f
substituents; wherein at least one substituent is bonded at the *meta* position.

In some embodiments of compounds of Formula I, II, III, IV(a), IV(b),
V(a), V(b), VI, VII(a), VII(b), VIII(a), VIII(b), IX, X(a), X(b), XI(a), XI(b), XII(a),
XII(b), XII(c), XII(d), XII(e), XII(f), XII(g), XII(h), XII(i), XII(j), XII(k), XII(l), XII(m),
XII(n) or XII(o), R^2 is phenyl substituted with a substituent selected from
 $(\text{CH}_2)_n\text{C}(\text{O})\text{OR}^a$ and $(\text{CH}_2)_n\text{C}(\text{O})\text{NR}^b\text{R}^c$; and optionally substituted with 1, 2 or
3 additional substituents selected from halogen, CN, $(\text{CH}_2)_n\text{OR}^a$,
 $(\text{CH}_2)_n\text{OC}(\text{O})\text{R}^a$, $(\text{CH}_2)_n\text{OC}(\text{O})\text{OR}^a$, $(\text{CH}_2)_n\text{OC}(\text{O})\text{NR}^b\text{R}^c$, $(\text{CH}_2)_n\text{NR}^b\text{R}^c$,
 $(\text{CH}_2)_n\text{NR}^d\text{C}(\text{O})\text{R}^a$, $(\text{CH}_2)_n\text{NR}^d\text{C}(\text{O})\text{OR}^a$, $(\text{CH}_2)_n\text{NR}^d\text{C}(\text{O})\text{NR}^b\text{R}^c$,
 $(\text{CH}_2)_n\text{NR}^d\text{C}(\text{O})\text{C}(\text{O})\text{NR}^b\text{R}^c$, $(\text{CH}_2)_n\text{NR}^d\text{C}(\text{S})\text{R}^a$, $(\text{CH}_2)_n\text{NR}^d\text{C}(\text{S})\text{OR}^a$,
 $(\text{CH}_2)_n\text{NR}^d\text{C}(\text{S})\text{NR}^b\text{R}^c$, $(\text{CH}_2)_n\text{NR}^d\text{C}(\text{NR}^e)\text{NR}^b\text{R}^c$, $(\text{CH}_2)_n\text{NR}^d\text{S}(\text{O})\text{R}^a$,
 $(\text{CH}_2)_n\text{NR}^d\text{SO}_2\text{R}^a$, $(\text{CH}_2)_n\text{NR}^d\text{SO}_2\text{NR}^b\text{R}^c$, $(\text{CH}_2)_n\text{C}(\text{O})\text{R}^a$, $(\text{CH}_2)_n\text{C}(\text{O})\text{OR}^a$,
 $(\text{CH}_2)_n\text{C}(\text{O})\text{NR}^b\text{R}^c$, $(\text{CH}_2)_n\text{C}(\text{S})\text{R}^a$, $(\text{CH}_2)_n\text{C}(\text{S})\text{OR}^a$, $(\text{CH}_2)_n\text{C}(\text{S})\text{NR}^b\text{R}^c$,
 $(\text{CH}_2)_n\text{C}(\text{NR}^e)\text{NR}^b\text{R}^c$, $(\text{CH}_2)_n\text{SR}^a$, $(\text{CH}_2)_n\text{S}(\text{O})\text{R}^a$, $(\text{CH}_2)_n\text{SO}_2\text{R}^a$,
 $(\text{CH}_2)_n\text{SO}_2\text{NR}^b\text{R}^c$, C_{1-6} alkyl, C_{1-6} haloalkyl, C_{2-6} alkenyl, C_{2-6} alkynyl, $(\text{CH}_2)_n\text{C}_{3-8}$
cycloalkyl, $(\text{CH}_2)_n$ 3-8 membered heterocycloalkyl, $(\text{CH}_2)_n$ phenyl,
 $(\text{CH}_2)_n$ naphthyl and $(\text{CH}_2)_n$ 5-10 membered heteroaryl, wherein each of the C_{1-6}
alkyl, C_{2-6} alkenyl, C_{2-6} alkynyl, $(\text{CH}_2)_n\text{C}_{3-8}$ cycloalkyl, $(\text{CH}_2)_n$ 3-8 membered
heterocycloalkyl, $(\text{CH}_2)_n$ phenyl, $(\text{CH}_2)_n$ naphthyl and $(\text{CH}_2)_n$ 5-10 membered
heteroaryl groups is optionally substituted with 1, 2, 3, 4 or 5 R^f substituents.

In some embodiments of compounds of Formula I, II, III, IV(a), IV(b),

V(a), V(b), VI, VII(a), VII(b), VIII(a), VIII(b), IX, X(a), X(b), XI(a), XI(b), XII(a), XII(b), XII(c), XII(d), XII(e), XII(f), XII(g), XII(h), XII(i), XII(j), XII(k), XII(l), XII(m), XII(n) or XII(o), R² is phenyl substituted with a substituent selected from C(O)OH, C(O)NH₂, C(O)OC₁₋₆ alkyl, C(O)NHC₁₋₆ alkyl and C(O)N(C₁₋₆ alkyl)₂; and optionally substituted with 1, 2 or 3 additional substituents selected from halogen, C₁₋₆ alkyl and C₁₋₆ haloalkyl.

In some embodiments of compounds of Formula I, II, III, IV(a), IV(b), V(a), V(b), VI, VII(a), VII(b), VIII(a), VIII(b), IX, X(a), X(b), XI(a), XI(b), XII(a), XII(b), XII(c), XII(d), XII(e), XII(f), XII(g), XII(h), XII(i), XII(j), XII(k), XII(l), XII(m), XII(n) or XII(o), R² is phenyl substituted at the *meta* position with a substituent selected from (CH₂)_nC(O)OR^a and (CH₂)_nC(O)NR^bR^c; and optionally substituted with 1, 2 or 3 additional substituents selected from halogen, CN, (CH₂)_nOR^a, (CH₂)_nOC(O)R^a, (CH₂)_nOC(O)OR^a, (CH₂)_nOC(O)NR^bR^c, (CH₂)_nNR^bR^c, (CH₂)_nNR^dC(O)R^a, (CH₂)_nNR^dC(O)OR^a, (CH₂)_nNR^dC(O)NR^bR^c, (CH₂)_nNR^dC(O)C(O)NR^bR^c, (CH₂)_nNR^dC(S)R^a, (CH₂)_nNR^dC(S)OR^a, (CH₂)_nNR^dC(S)NR^bR^c, (CH₂)_nNR^dC(NR^e)NR^bR^c, (CH₂)_nNR^dS(O)R^a, (CH₂)_nNR^dSO₂R^a, (CH₂)_nNR^dSO₂NR^bR^c, (CH₂)_nC(O)R^a, (CH₂)_nC(O)OR^a, (CH₂)_nC(O)NR^bR^c, (CH₂)_nC(S)R^a, (CH₂)_nC(S)OR^a, (CH₂)_nC(S)NR^bR^c, (CH₂)_nC(NR^e)NR^bR^c, (CH₂)_nSR^a, (CH₂)_nS(O)R^a, (CH₂)_nSO₂R^a, (CH₂)_nSO₂NR^bR^c, C₁₋₆ alkyl, C₁₋₆ haloalkyl, C₂₋₆ alkenyl, C₂₋₆ alkynyl, (CH₂)_nC₃₋₈ cycloalkyl, (CH₂)_n3-8 membered heterocycloalkyl, (CH₂)_nphenyl, (CH₂)_nnaphthyl and (CH₂)_n5-10 membered heteroaryl, wherein each of the C₁₋₆ alkyl, C₂₋₆ alkenyl, C₂₋₆ alkynyl, (CH₂)_nC₃₋₈ cycloalkyl, (CH₂)_n3-8 membered heterocycloalkyl, (CH₂)_nphenyl, (CH₂)_nnaphthyl and (CH₂)_n5-10 membered heteroaryl groups is optionally substituted with 1, 2, 3, 4 or 5 R^f substituents.

In some embodiments of compounds of Formula I, II, III, IV(a), IV(b), V(a), V(b), VI, VII(a), VII(b), VIII(a), VIII(b), IX, X(a), X(b), XI(a), XI(b), XII(a), XII(b), XII(c), XII(d), XII(e), XII(f), XII(g), XII(h), XII(i), XII(j), XII(k), XII(l), XII(m), XII(n) or XII(o), R² is phenyl substituted at the *meta* position with a substituent selected from (CH₂)_nC(O)OR^a and (CH₂)_nC(O)NR^bR^c, and optionally substituted with 1, 2 or 3 additional substituents selected from halogen, hydroxyl, C₁₋₆ alkoxy, CN, C₁₋₆ alkyl and C₁₋₆ haloalkyl.

In some embodiments of compounds of Formula I, II, III, IV(a), IV(b),

V(a), V(b), VI, VII(a), VII(b), VIII(a), VIII(b), IX, X(a), X(b), XI(a), XI(b), XII(a), XII(b), XII(c), XII(d), XII(e), XII(f), XII(g), XII(h), XII(i), XII(j), XII(k), XII(l), XII(m), XII(n) or XII(o), R² is phenyl substituted at the *meta* position with a substituent selected from C(O)OH, C(O)NH₂, C(O)OC₁₋₆ alkyl, C(O)NHC₁₋₆ alkyl and C(O)N(C₁₋₆ alkyl)₂; and optionally substituted with 1, 2 or 3 additional substituents selected from halogen, hydroxyl, C₁₋₆ alkoxy, CN, C₁₋₆ alkyl and C₁₋₆ haloalkyl.

In some embodiments of compounds of Formula I, II, III, IV(a), IV(b), V(a), V(b), VI, VII(a), VII(b), VIII(a), VIII(b), IX, X(a), X(b), XI(a), XI(b), XII(a), XII(b), XII(c), XII(d), XII(e), XII(f), XII(g), XII(h), XII(i), XII(j), XII(k), XII(l), XII(m), XII(n) or XII(o), R² is phenyl substituted with (CH₂)_nNR^dC(O)R^a, wherein R^a is C₁₋₆ alkyl or 3-8 membered heterocycloalkyl, each optionally substituted with 1, 2 or 3 substituents selected from halogen, CN, oxo, (CH₂)_nOR^a, (CH₂)_nOC(O)R^a, (CH₂)_nOC(O)OR^a, (CH₂)_nOC(O)NR^bR^c, (CH₂)_nNR^bR^c, (CH₂)_nNR^dC(O)R^a, (CH₂)_nNR^dC(O)OR^a, (CH₂)_nNR^dC(O)NR^bR^c, (CH₂)_nNR^dC(O)C(O)NR^bR^c, (CH₂)_nNR^dC(S)R^a, (CH₂)_nNR^dC(S)OR^a, (CH₂)_nNR^dC(S)NR^bR^c, (CH₂)_nNR^dC(NR^e)NR^bR^c, (CH₂)_nNR^dS(O)R^a, (CH₂)_nNR^dSO₂R^a, (CH₂)_nNR^dSO₂NR^bR^c, (CH₂)_nC(O)R^a, (CH₂)_nC(O)OR^a, (CH₂)_nC(O)NR^bR^c, (CH₂)_nC(S)R^a, (CH₂)_nC(S)OR^a, (CH₂)_nC(S)NR^bR^c, (CH₂)_nC(NR^e)NR^bR^c, (CH₂)_nSR^a, (CH₂)_nS(O)R^a, (CH₂)_nSO₂R^a, (CH₂)_nSO₂NR^bR^c, C₁₋₆ alkyl, C₁₋₆ haloalkyl, C₂₋₆ alkenyl, C₂₋₆ alkynyl, (CH₂)_nC₃₋₈ cycloalkyl, (CH₂)_n3-8 membered heterocycloalkyl, (CH₂)_nphenyl, (CH₂)_nnaphthyl and (CH₂)_n5-10 membered heteroaryl; and optionally substituted with 1, 2 or 3 additional substituents selected from halogen, CN, (CH₂)_nOR^a, (CH₂)_nOC(O)R^a, (CH₂)_nOC(O)OR^a, (CH₂)_nOC(O)NR^bR^c, (CH₂)_nNR^bR^c, (CH₂)_nNR^dC(O)R^a, (CH₂)_nNR^dC(O)OR^a, (CH₂)_nNR^dC(O)NR^bR^c, (CH₂)_nNR^dC(O)C(O)NR^bR^c, (CH₂)_nNR^dC(S)R^a, (CH₂)_nNR^dC(S)OR^a, (CH₂)_nNR^dC(S)NR^bR^c, (CH₂)_nNR^dC(NR^e)NR^bR^c, (CH₂)_nNR^dS(O)R^a, (CH₂)_nNR^dSO₂R^a, (CH₂)_nNR^dSO₂NR^bR^c, (CH₂)_nC(O)R^a, (CH₂)_nC(O)OR^a, (CH₂)_nC(O)NR^bR^c, (CH₂)_nC(S)R^a, (CH₂)_nC(S)OR^a, (CH₂)_nC(S)NR^bR^c, (CH₂)_nC(NR^e)NR^bR^c, (CH₂)_nSR^a, (CH₂)_nS(O)R^a, (CH₂)_nSO₂R^a, (CH₂)_nSO₂NR^bR^c, C₁₋₆ alkyl, C₁₋₆ haloalkyl, C₂₋₆ alkenyl, C₂₋₆ alkynyl, (CH₂)_nC₃₋₈ cycloalkyl, (CH₂)_n3-8 membered heterocycloalkyl, (CH₂)_nphenyl,

(CH₂)_nnaphthyl and (CH₂)_n5-10 membered heteroaryl, wherein each of the C₁₋₆ alkyl, C₂₋₆ alkenyl, C₂₋₆ alkynyl, (CH₂)_nC₃₋₈ cycloalkyl, (CH₂)_n3-8 membered heterocycloalkyl, (CH₂)_nphenyl, (CH₂)_nnaphthyl and (CH₂)_n5-10 membered heteroaryl groups is optionally substituted with 1, 2, 3, 4 or 5 R^f substituents.

In some embodiments of compounds of Formula I, II, III, IV(a), IV(b), V(a), V(b), VI, VII(a), VII(b), VIII(a), VIII(b), IX, X(a), X(b), XI(a), XI(b), XII(a), XII(b), XII(c), XII(d), XII(e), XII(f), XII(g), XII(h), XII(i), XII(j), XII(k), XII(l), XII(m), XII(n) or XII(o), R² is phenyl substituted with (CH₂)_nNR^dC(O)R^a, wherein R^a is selected from C₁₋₆ alkyl, C₁₋₆ alkyl-OH and C₁₋₆ alkyl-NH₂, each optionally substituted with 1, 2 or 3 substituents selected from halogen, CN, oxo, (CH₂)_nOR^a, (CH₂)_nOC(O)R^a, (CH₂)_nOC(O)OR^a, (CH₂)_nOC(O)NR^bR^c, (CH₂)_nNR^bR^c, (CH₂)_nNR^dC(O)R^a, (CH₂)_nNR^dC(O)OR^a, (CH₂)_nNR^dC(O)NR^bR^c, (CH₂)_nNR^dSO₂R^a, (CH₂)_nNR^dSO₂NR^bR^c, (CH₂)_nC(O)R^a, (CH₂)_nC(O)OR^a, (CH₂)_nC(O)NR^bR^c, (CH₂)_nSR^a, (CH₂)_nS(O)R^a, (CH₂)_nSO₂R^a, (CH₂)_nSO₂NR^bR^c, C₁₋₆ alkyl, C₁₋₆ haloalkyl, C₂₋₆ alkenyl, C₂₋₆ alkynyl, (CH₂)_nC₃₋₈ cycloalkyl, (CH₂)_n3-8 membered heterocycloalkyl, (CH₂)_nphenyl, and (CH₂)_n5-10 membered heteroaryl; and optionally substituted with 1, 2 or 3 additional substituents selected from halogen, CN, (CH₂)_nOR^a, (CH₂)_nOC(O)R^a, (CH₂)_nOC(O)OR^a, (CH₂)_nOC(O)NR^bR^c, (CH₂)_nNR^bR^c, (CH₂)_nNR^dC(O)R^a, (CH₂)_nNR^dC(O)OR^a, (CH₂)_nNR^dC(O)NR^bR^c, (CH₂)_nNR^dC(O)C(O)NR^bR^c, (CH₂)_nNR^dC(S)R^a, (CH₂)_nNR^dC(S)OR^a, (CH₂)_nNR^dC(S)NR^bR^c, (CH₂)_nNR^dC(NR^e)NR^bR^c, (CH₂)_nNR^dS(O)R^a, (CH₂)_nNR^dSO₂R^a, (CH₂)_nNR^dSO₂NR^bR^c, (CH₂)_nC(O)R^a, (CH₂)_nC(O)OR^a, (CH₂)_nC(O)NR^bR^c, (CH₂)_nC(S)R^a, (CH₂)_nC(S)OR^a, (CH₂)_nC(S)NR^bR^c, (CH₂)_nC(NR^e)NR^bR^c, (CH₂)_nSR^a, (CH₂)_nS(O)R^a, (CH₂)_nSO₂R^a, (CH₂)_nSO₂NR^bR^c, C₁₋₆ alkyl, C₁₋₆ haloalkyl, C₂₋₆ alkenyl, C₂₋₆ alkynyl, (CH₂)_nC₃₋₈ cycloalkyl, (CH₂)_n3-8 membered heterocycloalkyl, (CH₂)_nphenyl, (CH₂)_nnaphthyl and (CH₂)_n5-10 membered heteroaryl, wherein each of the C₁₋₆ alkyl, C₂₋₆ alkenyl, C₂₋₆ alkynyl, (CH₂)_nC₃₋₈ cycloalkyl, (CH₂)_n3-8 membered heterocycloalkyl, (CH₂)_nphenyl, (CH₂)_nnaphthyl and (CH₂)_n5-10 membered heteroaryl groups is optionally substituted with 1, 2, 3, 4 or 5 R^f substituents.

In some embodiments of compounds of Formula I, II, III, IV(a), IV(b), V(a), V(b), VI, VII(a), VII(b), VIII(a), VIII(b), IX, X(a), X(b), XI(a), XI(b), XII(a),

XII(b), XII(c), XII(d), XII(e), XII(f), XII(g), XII(h), XII(i), XII(j), XII(k), XII(l), XII(m), XII(n) or XII(o), R^2 is selected from 3-benzamide, N-methyl-3-benzamide, N,N-dimethyl-3-benzamide, 4-fluoro-3-benzamide, N-methyl-4-fluoro-3-benzamide, N,N-dimethyl-4-fluoro-3-benzamide, 3-benzoic acid, methyl-3-benzoate, 4-fluoro-3-benzoic acid, and methyl-4-fluoro-3-benzoate.

In some embodiments of compounds of Formula I, II, III, IV(a), IV(b), V(a), V(b), VI, VII(a), VII(b), VIII(a), VIII(b), IX, X(a), X(b), XI(a), XI(b), XII(a), XII(b), XII(c), XII(d), XII(e), XII(f), XII(g), XII(h), XII(i), XII(j), XII(k), XII(l), XII(m), XII(n) or XII(o), R^2 is 5-10 membered heteroaryl optionally substituted with 1, 2, 3, 4 or 5 substituents selected from halogen, CN, oxo, $(CH_2)_nOR^a$, $(CH_2)_nOC(O)R^a$, $(CH_2)_nOC(O)OR^a$, $(CH_2)_nOC(O)NR^bR^c$, $(CH_2)_nNR^bR^c$, $(CH_2)_nNR^dC(O)R^a$, $(CH_2)_nNR^dC(O)OR^a$, $(CH_2)_nNR^dC(O)NR^bR^c$, $(CH_2)_nNR^dC(O)C(O)NR^bR^c$, $(CH_2)_nNR^dC(S)R^a$, $(CH_2)_nNR^dC(S)OR^a$, $(CH_2)_nNR^dC(S)NR^bR^c$, $(CH_2)_nNR^dC(NR^e)NR^bR^c$, $(CH_2)_nNR^dS(O)R^a$, $(CH_2)_nNR^dSO_2R^a$, $(CH_2)_nNR^dSO_2NR^bR^c$, $(CH_2)_nC(O)R^a$, $(CH_2)_nC(O)OR^a$, $(CH_2)_nC(O)NR^bR^c$, $(CH_2)_nC(S)R^a$, $(CH_2)_nC(S)OR^a$, $(CH_2)_nC(S)NR^bR^c$, $(CH_2)_nC(NR^e)NR^bR^c$, $(CH_2)_nSR^a$, $(CH_2)_nS(O)R^a$, $(CH_2)_nSO_2R^a$, $(CH_2)_nSO_2NR^bR^c$, C_{1-6} alkyl, C_{1-6} haloalkyl, C_{2-6} alkenyl, C_{2-6} alkynyl, $(CH_2)_nC_{3-8}$ cycloalkyl, $(CH_2)_n3-8$ membered heterocycloalkyl, $(CH_2)_n$ phenyl, $(CH_2)_n$ naphthyl and $(CH_2)_n5-10$ membered heteroaryl, wherein each of the C_{1-6} alkyl, C_{2-6} alkenyl, C_{2-6} alkynyl, $(CH_2)_nC_{3-8}$ cycloalkyl, $(CH_2)_n3-8$ membered heterocycloalkyl, $(CH_2)_n$ phenyl, $(CH_2)_n$ naphthyl and $(CH_2)_n5-10$ membered heteroaryl groups is optionally substituted with 1, 2, 3, 4 or 5 R^f substituents.

In some embodiments of compounds of Formula I, II, III, IV(a), IV(b), V(a), V(b), VI, VII(a), VII(b), VIII(a), VIII(b), IX, X(a), X(b), XI(a), XI(b), XII(a), XII(b), XII(c), XII(d), XII(e), XII(f), XII(g), XII(h), XII(i), XII(j), XII(k), XII(l), XII(m), XII(n) or XII(o), R^2 is selected from pyridyl, pyrimidyl, pyrazyl, pyridazyl, triazyl, furanyl, pyrrolyl, thiophenyl, thiazolyl, isothiazolyl, thiadiazolyl, oxazolyl, isoxazolyl, oxadiazolyl, imidazolyl, triazolyl and tetrazolyl, each optionally substituted with 1, 2, 3 or 4 substituents selected from halogen, CN, oxo, $(CH_2)_nOR^a$, $(CH_2)_nOC(O)R^a$, $(CH_2)_nOC(O)OR^a$, $(CH_2)_nOC(O)NR^bR^c$, $(CH_2)_nNR^bR^c$, $(CH_2)_nNR^dC(O)R^a$, $(CH_2)_nNR^dC(O)OR^a$, $(CH_2)_nNR^dC(O)NR^bR^c$, $(CH_2)_nNR^dC(O)C(O)NR^bR^c$, $(CH_2)_nNR^dC(S)R^a$, $(CH_2)_nNR^dC(S)OR^a$,

$(\text{CH}_2)_n\text{NR}^d\text{C}(\text{S})\text{NR}^b\text{R}^c$, $(\text{CH}_2)_n\text{NR}^d\text{C}(\text{NR}^e)\text{NR}^b\text{R}^c$, $(\text{CH}_2)_n\text{NR}^d\text{S}(\text{O})\text{R}^a$,
 $(\text{CH}_2)_n\text{NR}^d\text{SO}_2\text{R}^a$, $(\text{CH}_2)_n\text{NR}^d\text{SO}_2\text{NR}^b\text{R}^c$, $(\text{CH}_2)_n\text{C}(\text{O})\text{R}^a$, $(\text{CH}_2)_n\text{C}(\text{O})\text{OR}^a$,
 $(\text{CH}_2)_n\text{C}(\text{O})\text{NR}^b\text{R}^c$, $(\text{CH}_2)_n\text{C}(\text{S})\text{R}^a$, $(\text{CH}_2)_n\text{C}(\text{S})\text{OR}^a$, $(\text{CH}_2)_n\text{C}(\text{S})\text{NR}^b\text{R}^c$,
 $(\text{CH}_2)_n\text{C}(\text{NR}^e)\text{NR}^b\text{R}^c$, $(\text{CH}_2)_n\text{SR}^a$, $(\text{CH}_2)_n\text{S}(\text{O})\text{R}^a$, $(\text{CH}_2)_n\text{SO}_2\text{R}^a$,
 $(\text{CH}_2)_n\text{SO}_2\text{NR}^b\text{R}^c$, C_{1-6} alkyl, C_{1-6} haloalkyl, C_{2-6} alkenyl, C_{2-6} alkynyl, $(\text{CH}_2)_n\text{C}_{3-8}$ cycloalkyl, $(\text{CH}_2)_n$ 3-8 membered heterocycloalkyl, $(\text{CH}_2)_n$ phenyl,
 $(\text{CH}_2)_n$ naphthyl and $(\text{CH}_2)_n$ 5-10 membered heteroaryl, wherein each of the C_{1-6} alkyl, C_{2-6} alkenyl, C_{2-6} alkynyl, $(\text{CH}_2)_n\text{C}_{3-8}$ cycloalkyl, $(\text{CH}_2)_n$ 3-8 membered heterocycloalkyl, $(\text{CH}_2)_n$ phenyl, $(\text{CH}_2)_n$ naphthyl and $(\text{CH}_2)_n$ 5-10 membered heteroaryl groups is optionally substituted with 1, 2, 3, 4 or 5 R^f substituents.

In some embodiments of compounds of Formula I, II, III, IV(a), IV(b), V(a), V(b), VI, VII(a), VII(b), VIII(a), VIII(b), IX, X(a), X(b), XI(a), XI(b), XII(a), XII(b), XII(c), XII(d), XII(e), XII(f), XII(g), XII(h), XII(i), XII(j), XII(k), XII(l), XII(m), XII(n) or XII(o), R^2 is selected from pyridyl, pyrimidyl, pyrazyl, pyridazyl, triazyl, furanyl, pyrrolyl, thiophenyl, thiazolyl, isothiazolyl, thiadiazolyl, oxazolyl, isoxazolyl, oxadiazolyl, imidazolyl, triazolyl and tetrazolyl, each optionally substituted with a substituent selected from $(\text{CH}_2)_n\text{C}(\text{O})\text{OR}^a$ and $(\text{CH}_2)_n\text{C}(\text{O})\text{NR}^b\text{R}^c$; and optionally substituted with 1, 2 or 3 additional substituents selected from halogen, CN, oxo, $(\text{CH}_2)_n\text{OR}^a$, $(\text{CH}_2)_n\text{OC}(\text{O})\text{R}^a$, $(\text{CH}_2)_n\text{OC}(\text{O})\text{OR}^a$, $(\text{CH}_2)_n\text{OC}(\text{O})\text{NR}^b\text{R}^c$, $(\text{CH}_2)_n\text{NR}^b\text{R}^c$, $(\text{CH}_2)_n\text{NR}^d\text{C}(\text{O})\text{R}^a$, $(\text{CH}_2)_n\text{NR}^d\text{C}(\text{O})\text{OR}^a$, $(\text{CH}_2)_n\text{NR}^d\text{C}(\text{O})\text{NR}^b\text{R}^c$, $(\text{CH}_2)_n\text{NR}^d\text{C}(\text{O})\text{C}(\text{O})\text{NR}^b\text{R}^c$, $(\text{CH}_2)_n\text{NR}^d\text{C}(\text{S})\text{R}^a$, $(\text{CH}_2)_n\text{NR}^d\text{C}(\text{S})\text{OR}^a$, $(\text{CH}_2)_n\text{NR}^d\text{C}(\text{S})\text{NR}^b\text{R}^c$, $(\text{CH}_2)_n\text{NR}^d\text{C}(\text{NR}^e)\text{NR}^b\text{R}^c$, $(\text{CH}_2)_n\text{NR}^d\text{S}(\text{O})\text{R}^a$, $(\text{CH}_2)_n\text{NR}^d\text{SO}_2\text{R}^a$, $(\text{CH}_2)_n\text{NR}^d\text{SO}_2\text{NR}^b\text{R}^c$, $(\text{CH}_2)_n\text{C}(\text{O})\text{R}^a$, $(\text{CH}_2)_n\text{C}(\text{O})\text{OR}^a$, $(\text{CH}_2)_n\text{C}(\text{O})\text{NR}^b\text{R}^c$, $(\text{CH}_2)_n\text{C}(\text{S})\text{R}^a$, $(\text{CH}_2)_n\text{C}(\text{S})\text{OR}^a$, $(\text{CH}_2)_n\text{C}(\text{S})\text{NR}^b\text{R}^c$, $(\text{CH}_2)_n\text{C}(\text{NR}^e)\text{NR}^b\text{R}^c$, $(\text{CH}_2)_n\text{SR}^a$, $(\text{CH}_2)_n\text{S}(\text{O})\text{R}^a$, $(\text{CH}_2)_n\text{SO}_2\text{R}^a$, $(\text{CH}_2)_n\text{SO}_2\text{NR}^b\text{R}^c$, C_{1-6} alkyl, C_{1-6} haloalkyl, C_{2-6} alkenyl, C_{2-6} alkynyl, $(\text{CH}_2)_n\text{C}_{3-8}$ cycloalkyl, $(\text{CH}_2)_n$ 3-8 membered heterocycloalkyl, $(\text{CH}_2)_n$ phenyl, $(\text{CH}_2)_n$ naphthyl and $(\text{CH}_2)_n$ 5-10 membered heteroaryl, wherein each of the C_{1-6} alkyl, C_{2-6} alkenyl, C_{2-6} alkynyl, $(\text{CH}_2)_n\text{C}_{3-8}$ cycloalkyl, $(\text{CH}_2)_n$ 3-8 membered heterocycloalkyl, $(\text{CH}_2)_n$ phenyl, $(\text{CH}_2)_n$ naphthyl and $(\text{CH}_2)_n$ 5-10 membered heteroaryl groups is optionally substituted with 1, 2, 3, 4 or 5 R^f substituents.

In some embodiments of compounds of Formula I, II, III, IV(a), IV(b),

V(a), V(b), VI, VII(a), VII(b), VIII(a), VIII(b), IX, X(a), X(b), XI(a), XI(b), XII(a), XII(b), XII(c), XII(d), XII(e), XII(f), XII(g), XII(h), XII(i), XII(j), XII(k), XII(l), XII(m), XII(n) or XII(o), R^2 is selected from pyridyl, pyrimidyl, pyrazyl, pyridazyl and triazyl, each optionally substituted with $(CH_2)_n C(O)NR^b R^c$.

In some embodiments of compounds of Formula I, II, III, IV(a), IV(b), V(a), V(b), VI, VII(a), VII(b), VIII(a), VIII(b), IX, X(a), X(b), XI(a), XI(b), XII(a), XII(b), XII(c), XII(d), XII(e), XII(f), XII(g), XII(h), XII(i), XII(j), XII(k), XII(l), XII(m), XII(n) or XII(o), R^2 is selected from furanyl, pyrrolyl, thiophenyl, thiazolyl, isothiazolyl, thiadiazolyl, oxazolyl, isoxazolyl, oxadiazolyl, imidazolyl, triazolyl and tetrazolyl, each optionally substituted with $(CH_2)_n C(O)NR^b R^c$.

In some embodiments of compounds of Formula I, II, III, IV(a), IV(b), V(a), V(b), VI, VII(a), VII(b), VIII(a), VIII(b), IX, X(a), X(b), XI(a), XI(b), XII(a), XII(b), XII(c), XII(d), XII(e), XII(f), XII(g), XII(h), XII(i), XII(j), XII(k), XII(l), XII(m), XII(n) or XII(o), R^2 is selected from pyridyl, pyrimidyl, pyrazyl, pyridazyl and triazyl, each optionally substituted with $(CH_2)_n C(O)NH_2$.

In some embodiments of compounds of Formula I, II, III, IV(a), IV(b), V(a), V(b), VI, VII(a), VII(b), VIII(a), VIII(b), IX, X(a), X(b), XI(a), XI(b), XII(a), XII(b), XII(c), XII(d), XII(e), XII(f), XII(g), XII(h), XII(i), XII(j), XII(k), XII(l), XII(m), XII(n) or XII(o), R^2 is selected from furanyl, pyrrolyl, thiophenyl, thiazolyl, isothiazolyl, thiadiazolyl, oxazolyl, isoxazolyl, oxadiazolyl, imidazolyl, triazolyl and tetrazolyl, each optionally substituted with $(CH_2)_n C(O)NH_2$.

In some embodiments of compounds of Formula I, II, III, IV(a), IV(b), V(a), V(b), VI, VII(a), VII(b), VIII(a), VIII(b), IX, X(a), X(b), XI(a), XI(b), XII(a), XII(b), XII(c), XII(d), XII(e), XII(f), XII(g), XII(h), XII(i), XII(j), XII(k), XII(l), XII(m), XII(n) or XII(o), R^2 is selected from pyridyl, pyrimidyl, pyrazyl, pyridazyl, triazyl, furanyl, pyrrolyl, thiophenyl, thiazolyl, isothiazolyl, thiadiazolyl, oxazolyl, isoxazolyl, oxadiazolyl, imidazolyl, triazolyl and tetrazolyl, each optionally substituted with $(CH_2)_n NR^d C(O)R^a$, wherein R^a is C_{1-6} alkyl or 3-8 membered heterocycloalkyl, each optionally substituted with 1, 2 or 3 substituents selected from halogen, CN, oxo, $(CH_2)_n OR^a$, $(CH_2)_n OC(O)R^a$, $(CH_2)_n OC(O)OR^a$, $(CH_2)_n OC(O)NR^b R^c$, $(CH_2)_n NR^b R^c$, $(CH_2)_n NR^d C(O)R^a$, $(CH_2)_n NR^d C(O)OR^a$, $(CH_2)_n NR^d C(O)NR^b R^c$, $(CH_2)_n NR^d C(O)C(O)NR^b R^c$,

$(\text{CH}_2)_n\text{NR}^d\text{C}(\text{S})\text{R}^a$, $(\text{CH}_2)_n\text{NR}^d\text{C}(\text{S})\text{OR}^a$, $(\text{CH}_2)_n\text{NR}^d\text{C}(\text{S})\text{NR}^b\text{R}^c$,
 $(\text{CH}_2)_n\text{NR}^d\text{C}(\text{NR}^e)\text{NR}^b\text{R}^c$, $(\text{CH}_2)_n\text{NR}^d\text{S}(\text{O})\text{R}^a$, $(\text{CH}_2)_n\text{NR}^d\text{SO}_2\text{R}^a$,
 $(\text{CH}_2)_n\text{NR}^d\text{SO}_2\text{NR}^b\text{R}^c$, $(\text{CH}_2)_n\text{C}(\text{O})\text{R}^a$, $(\text{CH}_2)_n\text{C}(\text{O})\text{OR}^a$, $(\text{CH}_2)_n\text{C}(\text{O})\text{NR}^b\text{R}^c$,
 $(\text{CH}_2)_n\text{C}(\text{S})\text{R}^a$, $(\text{CH}_2)_n\text{C}(\text{S})\text{OR}^a$, $(\text{CH}_2)_n\text{C}(\text{S})\text{NR}^b\text{R}^c$, $(\text{CH}_2)_n\text{C}(\text{NR}^e)\text{NR}^b\text{R}^c$,
 $(\text{CH}_2)_n\text{SR}^a$, $(\text{CH}_2)_n\text{S}(\text{O})\text{R}^a$, $(\text{CH}_2)_n\text{SO}_2\text{R}^a$, $(\text{CH}_2)_n\text{SO}_2\text{NR}^b\text{R}^c$, C_{1-6} alkyl, C_{1-6}
haloalkyl, C_{2-6} alkenyl, C_{2-6} alkynyl, $(\text{CH}_2)_n\text{C}_{3-8}$ cycloalkyl, $(\text{CH}_2)_n$ 3-8
membered heterocycloalkyl, $(\text{CH}_2)_n$ phenyl, $(\text{CH}_2)_n$ naphthyl and $(\text{CH}_2)_n$ 5-10
membered heteroaryl, wherein each of the C_{1-6} alkyl, C_{2-6} alkenyl, C_{2-6} alkynyl,
 $(\text{CH}_2)_n\text{C}_{3-8}$ cycloalkyl, $(\text{CH}_2)_n$ 3-8 membered heterocycloalkyl, $(\text{CH}_2)_n$ phenyl,
 $(\text{CH}_2)_n$ naphthyl and $(\text{CH}_2)_n$ 5-10 membered heteroaryl groups is optionally
substituted with 1, 2, 3, 4 or 5 R^f substituents.

In some embodiments of compounds of Formula I, II, III, IV(a), IV(b),
V(a), V(b), VI, VII(a), VII(b), VIII(a), VIII(b), IX, X(a), X(b), XI(a), XI(b), XII(a),
XII(b), XII(c), XII(d), XII(e), XII(f), XII(g), XII(h), XII(i), XII(j), XII(k), XII(l), XII(m),
XII(n) or XII(o), R^2 is selected from pyridyl, pyrimidyl, pyrazyl, pyridazyl and
triazyl, each optionally substituted with $(\text{CH}_2)_n\text{NR}^d\text{C}(\text{O})\text{R}^a$, wherein R^a is
selected from C_{1-6} alkyl, C_{1-6} alkyl-OH and C_{1-6} alkyl-NH₂, each optionally
substituted with 1, 2 or 3 substituents selected from halogen, CN, $(\text{CH}_2)_n\text{OR}^a$,
 $(\text{CH}_2)_n\text{OC}(\text{O})\text{R}^a$, $(\text{CH}_2)_n\text{OC}(\text{O})\text{OR}^a$, $(\text{CH}_2)_n\text{OC}(\text{O})\text{NR}^b\text{R}^c$, $(\text{CH}_2)_n\text{NR}^b\text{R}^c$,
 $(\text{CH}_2)_n\text{NR}^d\text{C}(\text{O})\text{R}^a$, $(\text{CH}_2)_n\text{NR}^d\text{C}(\text{O})\text{OR}^a$, $(\text{CH}_2)_n\text{NR}^d\text{C}(\text{O})\text{NR}^b\text{R}^c$,
 $(\text{CH}_2)_n\text{NR}^d\text{SO}_2\text{R}^a$, $(\text{CH}_2)_n\text{NR}^d\text{SO}_2\text{NR}^b\text{R}^c$, $(\text{CH}_2)_n\text{C}(\text{O})\text{R}^a$, $(\text{CH}_2)_n\text{C}(\text{O})\text{OR}^a$,
 $(\text{CH}_2)_n\text{C}(\text{O})\text{NR}^b\text{R}^c$, $(\text{CH}_2)_n\text{SR}^a$, $(\text{CH}_2)_n\text{S}(\text{O})\text{R}^a$, $(\text{CH}_2)_n\text{SO}_2\text{R}^a$, $(\text{CH}_2)_n\text{SO}_2\text{NR}^b\text{R}^c$,
 C_{1-6} alkyl, C_{1-6} haloalkyl, C_{2-6} alkenyl, C_{2-6} alkynyl, $(\text{CH}_2)_n\text{C}_{3-8}$ cycloalkyl,
 $(\text{CH}_2)_n$ 3-8 membered heterocycloalkyl, $(\text{CH}_2)_n$ phenyl, $(\text{CH}_2)_n$ naphthyl and
 $(\text{CH}_2)_n$ 5-10 membered heteroaryl.

In some embodiments of compounds of Formula I, II, III, IV(a), IV(b),
V(a), V(b), VI, VII(a), VII(b), VIII(a), VIII(b), IX, X(a), X(b), XI(a), XI(b), XII(a),
XII(b), XII(c), XII(d), XII(e), XII(f), XII(g), XII(h), XII(i), XII(j), XII(k), XII(l), XII(m),
XII(n) or XII(o), R^2 is selected from furanyl, pyrrolyl, thiophenyl, thiazolyl,
isothiazolyl, thiadiazolyl, oxazolyl, isoxazolyl, oxadiazolyl, imidazolyl, triazolyl
and tetrazolyl, each optionally substituted with $(\text{CH}_2)_n\text{NR}^d\text{C}(\text{O})\text{R}^a$, wherein R^a
is selected from C_{1-6} alkyl, C_{1-6} alkyl-OH and C_{1-6} alkyl-NH₂, each optionally
substituted with 1, 2 or 3 substituents selected from halogen, CN, $(\text{CH}_2)_n\text{OR}^a$,

$(CH_2)_nOC(O)R^a$, $(CH_2)_nOC(O)OR^a$, $(CH_2)_nOC(O)NR^bR^c$, $(CH_2)_nNR^bR^c$,
 $(CH_2)_nNR^dC(O)R^a$, $(CH_2)_nNR^dC(O)OR^a$, $(CH_2)_nNR^dC(O)NR^bR^c$,
 $(CH_2)_nNR^dSO_2R^a$, $(CH_2)_nNR^dSO_2NR^bR^c$, $(CH_2)_nC(O)R^a$, $(CH_2)_nC(O)OR^a$,
 $(CH_2)_nC(O)NR^bR^c$, $(CH_2)_nSR^a$, $(CH_2)_nS(O)R^a$, $(CH_2)_nSO_2R^a$, $(CH_2)_nSO_2NR^bR^c$,
 C_{1-6} alkyl, C_{1-6} haloalkyl, C_{2-6} alkenyl, C_{2-6} alkynyl, $(CH_2)_nC_{3-8}$ cycloalkyl,
 $(CH_2)_n3-8$ membered heterocycloalkyl, $(CH_2)_n$ phenyl, $(CH_2)_n$ naphthyl and
 $(CH_2)_n5-10$ membered heteroaryl.

In some embodiments of compounds of Formula I, II, III, IV(a), IV(b),
 V(a), V(b), VI, VII(a), VII(b), VIII(a), VIII(b), IX, X(a), X(b), XI(a), XI(b), XII(a),
 XII(b), XII(c), XII(d), XII(e), XII(f), XII(g), XII(h), XII(i), XII(j), XII(k), XII(l), XII(m),
 XII(n) or XII(o), R^2 is selected from indolyl, indazolyl, benzimidazolyl,
 benzoxazolyl and benzoisoxazolyl, each optionally substituted with 1, 2, 3 or 4
 substituents selected from halogen, CN, oxo, $(CH_2)_nOR^a$, $(CH_2)_nOC(O)R^a$,
 $(CH_2)_nOC(O)OR^a$, $(CH_2)_nOC(O)NR^bR^c$, $(CH_2)_nNR^bR^c$, $(CH_2)_nNR^dC(O)R^a$,
 $(CH_2)_nNR^dC(O)OR^a$, $(CH_2)_nNR^dC(O)NR^bR^c$, $(CH_2)_nNR^dC(O)C(O)NR^bR^c$,
 $(CH_2)_nNR^dC(S)R^a$, $(CH_2)_nNR^dC(S)OR^a$, $(CH_2)_nNR^dC(S)NR^bR^c$,
 $(CH_2)_nNR^dC(NR^e)NR^bR^c$, $(CH_2)_nNR^dS(O)R^a$, $(CH_2)_nNR^dSO_2R^a$,
 $(CH_2)_nNR^dSO_2NR^bR^c$, $(CH_2)_nC(O)R^a$, $(CH_2)_nC(O)OR^a$, $(CH_2)_nC(O)NR^bR^c$,
 $(CH_2)_nC(S)R^a$, $(CH_2)_nC(S)OR^a$, $(CH_2)_nC(S)NR^bR^c$, $(CH_2)_nC(NR^e)NR^bR^c$,
 $(CH_2)_nSR^a$, $(CH_2)_nS(O)R^a$, $(CH_2)_nSO_2R^a$, $(CH_2)_nSO_2NR^bR^c$, C_{1-6} alkyl, C_{1-6}
 haloalkyl, C_{2-6} alkenyl, C_{2-6} alkynyl, $(CH_2)_nC_{3-8}$ cycloalkyl, $(CH_2)_n3-8$
 membered heterocycloalkyl, $(CH_2)_n$ phenyl, $(CH_2)_n$ naphthyl and $(CH_2)_n5-10$
 membered heteroaryl, wherein each of the C_{1-6} alkyl, C_{2-6} alkenyl, C_{2-6} alkynyl,
 $(CH_2)_nC_{3-8}$ cycloalkyl, $(CH_2)_n3-8$ membered heterocycloalkyl, $(CH_2)_n$ phenyl,
 $(CH_2)_n$ naphthyl and $(CH_2)_n5-10$ membered heteroaryl groups is optionally
 substituted with 1, 2, 3, 4 or 5 R^f substituents.

In some embodiments of compounds of Formula I, II, III, IV(a), IV(b),
 V(a), V(b), VI, VII(a), VII(b), VIII(a), VIII(b), IX, X(a), X(b), XI(a), XI(b), XII(a),
 XII(b), XII(c), XII(d), XII(e), XII(f), XII(g), XII(h), XII(i), XII(j), XII(k), XII(l), XII(m),
 XII(n) or XII(o), R^2 is selected from 1H-indazol-6-yl, 1H-indazol-5-yl, 1H-
 indazol-4-yl, 3-amino(1H-indazol-5-yl), 3-amino(1H-indazol-6-yl), 3-amino(1H-
 indazol-7-yl), 1-methyl(1H-indazol-6-yl), 3-methyl(1H-indazol-6-yl), 3-amino-1-
 methyl(1H-indazol-5-yl), 3-cyano(1H-indazol-5-yl), 3-carboxamide(1H-indazol-

5-yl), 3-carboxamidine(1H-indazol-5-yl), 3-vinyl(1H-indazol-5-yl), 3-ethyl(1H-indazol-5-yl), 3-acetamide(1H-indazol-5-yl), 3-methylsulfonylamine(1H-indazol-5-yl), 3-methoxycarboxamide(1H-indazol-5-yl), 3-methylamino(1H-indazol-5-yl), 3-dimethylamino(1H-indazol-5-yl), 3-ethylamino(1H-indazol-5-yl), 3-(2-aminoethyl)amino(1H-indazol-5-yl), 3-(2-hydroxyethyl)amino(1H-indazol-5-yl), 3-[(methylethyl)amino](1H-indazol-5-yl), 6-benzimidazol-5-yl, 6-(2-methylbenzimidazol-5-yl), 2-aminobenzimidazol-5-yl, 2-hydroxybenzimidazol-5-yl, 2-acetamidebenzimidazol-5-yl, 3-aminobenzo[3,4-d]isoxazol-5-yl, 3-aminobenzo[d]isoxazol-6-yl, 3-aminobenzo[d]isoxazol-7-yl, 2-methylbenzoxazol-5-yl and 2-methylbenzoxazol-6-yl.

In some embodiments of compounds of Formula I, II, III, IV(a), IV(b), V(a), V(b), VI, VII(a), VII(b), VIII(a), VIII(b), IX, X(a), X(b), XI(a), XI(b), XII(a), XII(b), XII(c), XII(d), XII(e), XII(f), XII(g), XII(h), XII(i), XII(j), XII(k), XII(l), XII(m), XII(n) or XII(o), R^2 is selected from 3-6 membered heterocycloalkyl and 3-6 membered heterocycloalkenyl, each optionally substituted with 1, 2, 3, 4 or 5 substituents selected from halogen, CN, oxo, $(CH_2)_nOR^a$, $(CH_2)_nOC(O)R^a$, $(CH_2)_nOC(O)OR^a$, $(CH_2)_nOC(O)NR^bR^c$, $(CH_2)_nNR^bR^c$, $(CH_2)_nNR^dC(O)R^a$, $(CH_2)_nNR^dC(O)OR^a$, $(CH_2)_nNR^dC(O)NR^bR^c$, $(CH_2)_nNR^dC(O)C(O)NR^bR^c$, $(CH_2)_nNR^dC(S)R^a$, $(CH_2)_nNR^dC(S)OR^a$, $(CH_2)_nNR^dC(S)NR^bR^c$, $(CH_2)_nNR^dC(NR^e)NR^bR^c$, $(CH_2)_nNR^dS(O)R^a$, $(CH_2)_nNR^dSO_2R^a$, $(CH_2)_nNR^dSO_2NR^bR^c$, $(CH_2)_nC(O)R^a$, $(CH_2)_nC(O)OR^a$, $(CH_2)_nC(O)NR^bR^c$, $(CH_2)_nC(S)R^a$, $(CH_2)_nC(S)OR^a$, $(CH_2)_nC(S)NR^bR^c$, $(CH_2)_nC(NR^e)NR^bR^c$, $(CH_2)_nSR^a$, $(CH_2)_nS(O)R^a$, $(CH_2)_nSO_2R^a$, $(CH_2)_nSO_2NR^bR^c$, C_{1-6} alkyl, C_{1-6} haloalkyl, C_{2-6} alkenyl, C_{2-6} alkynyl, $(CH_2)_nC_{3-8}$ cycloalkyl, $(CH_2)_n$ 3-8 membered heterocycloalkyl, $(CH_2)_n$ phenyl, $(CH_2)_n$ naphthyl and $(CH_2)_n$ 5-10 membered heteroaryl, wherein each of the C_{1-6} alkyl, C_{2-6} alkenyl, C_{2-6} alkynyl, $(CH_2)_nC_{3-8}$ cycloalkyl, $(CH_2)_n$ 3-8 membered heterocycloalkyl, $(CH_2)_n$ phenyl, $(CH_2)_n$ naphthyl and $(CH_2)_n$ 5-10 membered heteroaryl groups is optionally substituted with 1, 2, 3, 4 or 5 R^f substituents.

In some embodiments of compounds of Formula I, II, III, IV(a), IV(b), V(a), V(b), VI, VII(a), VII(b), VIII(a), VIII(b), IX, X(a), X(b), XI(a), XI(b), XII(a), XII(b), XII(c), XII(d), XII(e), XII(f), XII(g), XII(h), XII(i), XII(j), XII(k), XII(l), XII(m), XII(n) or XII(o), R^2 is selected from aziridinyl, azetidiny, pyrrolidinyl,

piperidiny, piperaziny and morpholiny, each optionally substituted with 1, 2, 3, 4 or 5 substituents selected from halogen, CN, oxo, $(\text{CH}_2)_n\text{OR}^a$, $(\text{CH}_2)_n\text{OC(O)R}^a$, $(\text{CH}_2)_n\text{OC(O)OR}^a$, $(\text{CH}_2)_n\text{OC(O)NR}^b\text{R}^c$, $(\text{CH}_2)_n\text{NR}^b\text{R}^c$, $(\text{CH}_2)_n\text{NR}^d\text{C(O)R}^a$, $(\text{CH}_2)_n\text{NR}^d\text{C(O)OR}^a$, $(\text{CH}_2)_n\text{NR}^d\text{C(O)NR}^b\text{R}^c$, $(\text{CH}_2)_n\text{NR}^d\text{C(O)C(O)NR}^b\text{R}^c$, $(\text{CH}_2)_n\text{NR}^d\text{C(S)R}^a$, $(\text{CH}_2)_n\text{NR}^d\text{C(S)OR}^a$, $(\text{CH}_2)_n\text{NR}^d\text{C(S)NR}^b\text{R}^c$, $(\text{CH}_2)_n\text{NR}^d\text{C(NR}^e\text{)NR}^b\text{R}^c$, $(\text{CH}_2)_n\text{NR}^d\text{S(O)R}^a$, $(\text{CH}_2)_n\text{NR}^d\text{SO}_2\text{R}^a$, $(\text{CH}_2)_n\text{NR}^d\text{SO}_2\text{NR}^b\text{R}^c$, $(\text{CH}_2)_nC(\text{O)R}^a$, $(\text{CH}_2)_nC(\text{O)OR}^a$, $(\text{CH}_2)_nC(\text{O)NR}^b\text{R}^c$, $(\text{CH}_2)_nC(\text{S)R}^a$, $(\text{CH}_2)_nC(\text{S)OR}^a$, $(\text{CH}_2)_nC(\text{S)NR}^b\text{R}^c$, $(\text{CH}_2)_nC(\text{NR}^e\text{)NR}^b\text{R}^c$, $(\text{CH}_2)_n\text{SR}^a$, $(\text{CH}_2)_n\text{S(O)R}^a$, $(\text{CH}_2)_n\text{SO}_2\text{R}^a$, $(\text{CH}_2)_n\text{SO}_2\text{NR}^b\text{R}^c$, C_{1-6} alkyl, C_{1-6} haloalkyl, C_{2-6} alkenyl, C_{2-6} alkynyl, $(\text{CH}_2)_nC_{3-8}$ cycloalkyl, $(\text{CH}_2)_n3-8$ membered heterocycloalkyl, $(\text{CH}_2)_n\text{phenyl}$, $(\text{CH}_2)_n\text{naphthyl}$ and $(\text{CH}_2)_n5-10$ membered heteroaryl, wherein each of the C_{1-6} alkyl, C_{2-6} alkenyl, C_{2-6} alkynyl, $(\text{CH}_2)_nC_{3-8}$ cycloalkyl, $(\text{CH}_2)_n3-8$ membered heterocycloalkyl, $(\text{CH}_2)_n\text{phenyl}$, $(\text{CH}_2)_n\text{naphthyl}$ and $(\text{CH}_2)_n5-10$ membered heteroaryl groups is optionally substituted with 1, 2, 3, 4 or 5 R^f substituents.

In some embodiments of compounds of Formula I, II, III, IV(a), IV(b), V(a), V(b), VI, VII(a), VII(b), VIII(a), VIII(b), IX, X(a), X(b), XI(a) or XI(b), R^2 is NR^bR^c , wherein R^b and R^c are as defined herein.

In some embodiments of compounds of Formula I, II, III, IV(a), IV(b), V(a), V(b), VI, VII(a), VII(b), VIII(a), VIII(b), IX, X(a), X(b), XI(a) or XI(b), R^2 is NR^bR^c , wherein one of R^b and R^c is hydrogen and the other is C_{1-6} alkyl optionally substituted with 1, 2, 3, 4 or 5 R^f substituents.

In some embodiments of compounds of Formula I, II, III, IV(a), IV(b), V(a), V(b), VI, VII(a), VII(b), VIII(a), VIII(b), IX, X(a), X(b), XI(a) or XI(b), X is $-\text{C(O)}-$ and R^2 is NR^bR^c , wherein R^b and R^c are as defined herein.

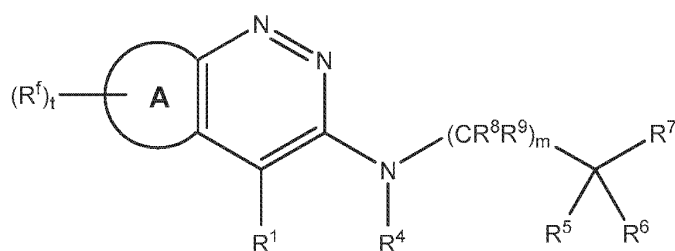
In some embodiments of compounds of Formula I, II, III, IV(a), IV(b), V(a), V(b), VI, VII(a), VII(b), VIII(a), VIII(b), IX, X(a), X(b), XI(a) or XI(b), X is $-\text{C(O)}-$ and R^2 is NR^bR^c , wherein one of R^b and R^c is hydrogen and the other is C_{1-6} alkyl optionally substituted with 1, 2, 3, 4 or 5 R^f substituents.

In some embodiments of compounds of Formula I, II, III, IV(a), IV(b), V(a), V(b), VI, VII(a), VII(b), VIII(a), VIII(b), IX, X(a), X(b), XI(a) or XI(b), X is $-(\text{CH}_2)_p-$ and R^2 is NR^bR^c , wherein R^b and R^c are as defined herein.

In some embodiments of compounds of Formula I, II, III, IV(a), IV(b), V(a), V(b), VI, VII(a), VII(b), VIII(a), VIII(b), IX, X(a), X(b), XI(a) or XI(b), X is $-(CH_2)_p-$ and R^2 is NR^bR^c , wherein one of R^b and R^c is hydrogen and the other is C_{1-6} alkyl optionally substituted with 1, 2, 3, 4 or 5 R^f substituents.

In some embodiments, X, R^2 and R^3 , together with the carbon atoms to which they are bound, form a 5-6 membered ring optionally containing one or more heteroatoms selected from oxygen nitrogen and sulfur, and optionally containing one or more double bonds, and optionally substituted with 1, 2, 3, 4 or 5 R^f substituents.

In some embodiments, the compound is of Formula XIII, or a pharmaceutically acceptable salt thereof:



Formula XIII

wherein A is a 5 or 6 membered ring optionally containing one or more heteroatoms selected from oxygen nitrogen and sulfur, and optionally containing one or more double bonds; t is 0, 1, 2, 3 or 4; and R^1 , R^4 , R^5 , R^6 , R^7 , R^8 , R^9 , R^f and m are as defined herein.

In some embodiments of compounds of Formula XIII, ring A together with the pyridazine ring to which it is bound form a group selected from cinnoline, pyrido[2,3-c]pyridazine, pyrido[3,4-c]pyridazine, pyrido[4,3-c]pyridazine, pyrido[3,2-c]pyridazine, 5,6,7,8-tetrahydrocinnoline, 5,6,7,8-tetrahydropyrido[2,3-c]pyridazine, 5,6,7,8-tetrahydropyrido[3,4-c]pyridazine, 5,6,7,8-tetrahydropyrido[4,3-c]pyridazine, 5,6,7,8-tetrahydropyrido[3,2-c]pyridazine, thieno[2,3-c]pyridazine, thiazolo[5,4-c]pyridazine, 7H-pyrrolo[2,3-c]pyridazine, 7H-imidazo[4,5-c]pyridazine, thieno[3,2-c]pyridazine, thiazolo[4,5-c]pyridazine, 5H-pyrrolo[3,2-c]pyridazine, 5H-imidazo[4,5-

c]pyridazine, 1H-pyrazolo[4,3-c]pyridazine, 1H-pyrazolo[3,4-c]pyridazine, 3H-[1,2,3]triazolo[4,5-c]pyridazine, 6,7-dihydro-5H-pyrrolo[2,3-c]pyridazine, 6,7-dihydro-5H-pyrrolo[3,4-c]pyridazine, 6,7-dihydro-5H-pyrrolo[3,2-c]pyridazine and 6,7-dihydro-5H-cyclopenta[c]pyridazine, each optionally substituted with 1, 2, 3, 4 or 5 R^f substituents.

In some embodiments of compounds of Formula I, II, III, IV(a), IV(b), V(a), V(b), VI, VII(a), VII(b), VIII(a), VIII(b), IX, X(a), X(b), XI(a), XI(b), XII(a), XII(b), XII(c), XII(d), XII(e), XII(f), XII(g), XII(h), XII(i), XII(j), XII(k), XII(l), XII(m), XII(n), XII(o) or XIII, R¹ is selected from hydrogen, halogen, CN, C₁₋₆ alkyl, C₁₋₆ haloalkyl, C(O)OR^a, C(O)NR^bR^c, OR^a, NR^bR^c, C₆₋₁₀ aryl and 5-10 membered heteroaryl.

In some embodiments of compounds of Formula I, II, III, IV(a), IV(b), V(a), V(b), VI, VII(a), VII(b), VIII(a), VIII(b), IX, X(a), X(b), XI(a), XI(b), XII(a), XII(b), XII(c), XII(d), XII(e), XII(f), XII(g), XII(h), XII(i), XII(j), XII(k), XII(l), XII(m), XII(n), XII(o) or XIII, R¹ is selected from hydrogen, halogen, CN, C₁₋₆ alkyl, C₁₋₆ haloalkyl, hydroxyl, C₁₋₆ alkoxy, NH₂, NHC₁₋₆ alkyl, and N(C₁₋₆ alkyl)₂.

In some embodiments of compounds of Formula I, II, III, IV(a), IV(b), V(a), V(b), VI, VII(a), VII(b), VIII(a), VIII(b), IX, X(a), X(b), XI(a), XI(b), XII(a), XII(b), XII(c), XII(d), XII(e), XII(f), XII(g), XII(h), XII(i), XII(j), XII(k), XII(l), XII(m), XII(n), XII(o) or XIII, R¹ is selected from hydrogen, halogen, CN, CF₃ and methyl.

In some embodiments of compounds of Formula I, II, III, IV(a), IV(b), V(a), V(b), VI, VII(a), VII(b), VIII(a), VIII(b), IX, X(a), X(b), XI(a), XI(b), XII(a), XII(b), XII(c), XII(d), XII(e), XII(f), XII(g), XII(h), XII(i), XII(j), XII(k), XII(l), XII(m), XII(n), XII(o) or XIII, R¹ is hydrogen.

In some embodiments of compounds of Formula I, II, III, IV(a), IV(b), V(a), V(b), VI, VII(a), VII(b), VIII(a), VIII(b), IX, X(a), X(b), XI(a), XI(b), XII(a), XII(b), XII(c), XII(d), XII(e), XII(f), XII(g), XII(h), XII(i), XII(j), XII(k), XII(l), XII(m), XII(n) or XII(o), R³ is selected from hydrogen, halogen, CN, C₁₋₆ alkyl, C₁₋₆ haloalkyl, C(O)OR^a, C(O)NR^bR^c, OR^a, NR^bR^c, C₆₋₁₀ aryl and 5-10 membered heteroaryl.

In some embodiments of compounds of Formula I, II, III, IV(a), IV(b),

V(a), V(b), VI, VII(a), VII(b), VIII(a), VIII(b), IX, X(a), X(b), XI(a), XI(b), XII(a), XII(b), XII(c), XII(d), XII(e), XII(f), XII(g), XII(h), XII(i), XII(j), XII(k), XII(l), XII(m), XII(n) or XII(o), R^3 is selected from hydrogen, halogen, CN, C_{1-6} alkyl, C_{1-6} haloalkyl, hydroxyl, C_{1-6} alkoxy, NH_2 , NHC_{1-6} alkyl, and $N(C_{1-6}$ alkyl) $_2$.

In some embodiments of compounds of Formula I, II, III, IV(a), IV(b), V(a), V(b), VI, VII(a), VII(b), VIII(a), VIII(b), IX, X(a), X(b), XI(a), XI(b), XII(a), XII(b), XII(c), XII(d), XII(e), XII(f), XII(g), XII(h), XII(i), XII(j), XII(k), XII(l), XII(m), XII(n) or XII(o), R^3 is selected from hydrogen, halogen, CN, CF_3 and methyl.

In some embodiments of compounds of Formula I, II, III, IV(a), IV(b), V(a), V(b), VI, VII(a), VII(b), VIII(a), VIII(b), IX, X(a), X(b), XI(a), XI(b), XII(a), XII(b), XII(c), XII(d), XII(e), XII(f), XII(g), XII(h), XII(i), XII(j), XII(k), XII(l), XII(m), XII(n) or XII(o), R^3 is hydrogen.

In some embodiments of compounds of Formula I, II, III, IV(a), IV(b), V(a), V(b), VI, VII(a), VII(b), VIII(a), VIII(b), IX, X(a), X(b), XI(a), XI(b), XII(a), XII(b), XII(c), XII(d), XII(e), XII(f), XII(g), XII(h), XII(i), XII(j), XII(k), XII(l), XII(m), XII(n) or XII(o), R^1 and R^3 are each hydrogen.

In some embodiments of compounds of Formula I, II, III, IV(a), IV(b), V(a), V(b), VI, VII(a), VII(b), VIII(a), VIII(b), IX, X(a), X(b), XI(a), XI(b), XII(a), XII(b), XII(c), XII(d), XII(e), XII(f), XII(g), XII(h), XII(i), XII(j), XII(k), XII(l), XII(m), XII(n), XII(o), or XIII, R^4 is selected from hydrogen, C_{1-6} alkyl, C_{1-6} haloalkyl, $C(O)R^a$, $C(O)OR^a$, $C(O)NR^bR^c$ and SO_2R^a .

In some embodiments of compounds of Formula I, II, III, IV(a), IV(b), V(a), V(b), VI, VII(a), VII(b), VIII(a), VIII(b), IX, X(a), X(b), XI(a), XI(b), XII(a), XII(b), XII(c), XII(d), XII(e), XII(f), XII(g), XII(h), XII(i), XII(j), XII(k), XII(l), XII(m), XII(n) or XII(o), R^4 is hydrogen.

In some embodiments of compounds of Formula I, II, III, IV(a), IV(b), V(a), V(b), VI, VII(a), VII(b), VIII(a), VIII(b), IX, X(a), X(b), XI(a), XI(b), XII(a), XII(b), XII(c), XII(d), XII(e), XII(f), XII(g), XII(h), XII(i), XII(j), XII(k), XII(l), XII(m), XII(n), XII(o), or XIII, R^1 , R^3 and R^4 are each hydrogen.

In some embodiments of compounds of Formula I, III, IV(b), V(b), VI, VII(b), VIII(b), IX, X(b), XI(b), XII(a), XII(c), XII(e), XII(f), XII(h), XII(j), XII(k), XII(m), XII(o) or XIII, R^8 and R^9 , at each occurrence, are each independently

selected from hydrogen, halogen and C₁₋₆ alkyl.

In some embodiments of compounds of Formula I, III, IV(b), V(b), VI, VII(b), VIII(b), IX, X(b), XI(b), XII(a), XII(c), XII(e), XII(f), XII(h), XII(j), XII(k), XII(m), XII(o) or XIII, R⁸ and R⁹, at each occurrence, are each hydrogen.

In some embodiments, the compound is selected from the compounds in Table 2, or a pharmaceutically acceptable salt thereof.

The compounds and compositions described and/or disclosed herein modulate the contractility of the skeletal sarcomere. Specifically, the compounds modulate the troponin complex of the fast skeletal muscle sarcomere through one or more of fast skeletal myosin, actin, tropomyosin, troponin C, troponin I, and troponin T, and fragments and isoforms thereof. As used in this context, "modulate" means either increasing or decreasing activity. In some instances, the compounds described and/or disclosed herein potentiate (i.e., increase activity) of one or more of fast skeletal myosin, actin, tropomyosin, troponin C, troponin I, and troponin T, and fragments and isoforms thereof. In other instances, the compounds described and/or disclosed herein inhibit (i.e., decrease activity) of one or more of fast skeletal myosin, actin, tropomyosin, troponin C, troponin I, and troponin T, and fragments and isoforms thereof.

In both preclinical and clinical settings, activators of the fast skeletal troponin complex have been shown to amplify the response of fast skeletal muscle to nerve stimulation, resulting in an increase in muscle force development at sub-maximal muscle activation (see, e.g., Russell et al., "The Fast Skeletal Troponin Activator, CK-2017357, Increases Skeletal Muscle Force *in vitro* and *in situ*", 2009 Experimental Biology Conference, New Orleans, LA, April 2009). Activators of the fast skeletal troponin complex have been shown to increase the sensitivity of skinned skeletal muscle fibers to calcium, and in living muscle to the frequency of stimulation, each of which results in an increase in muscle force development at sub-maximal muscle activation. Such activators have also been shown to reduce muscle fatigue and/or to increase the overall time to fatigue in normal and low oxygenated conditions (see, e.g., Russell et al., "The Fast Skeletal Troponin Activator, CK-2017357, Increases Skeletal

Muscle Force and Reduces Muscle Fatigue in vitro and in situ", 5th Cachexia Conference, Barcelona, Spain, December 2009; Hinken et al., "The Fast Skeletal Troponin Activator, CK-2017357, Reduces Muscle Fatigue in an in situ Model of Vascular Insufficiency", Society for Vascular Medicine's 2010 Annual Meeting: 21st Annual Scientific Sessions, Cleveland, OH, April 2010). The increase in muscle force in response to nerve input has been demonstrated in healthy human volunteers as well (see, e.g., Hansen et al., "CK-2017357, a Novel Activator of Fast Skeletal Muscle, Increases Isometric Force Evoked by Electrical Stimulation of the Anterior Tibialis Muscle in Healthy Male Subjects", Society for Neuroscience 40th Annual Meeting: Neuroscience 2010, November 2010). Work in additional preclinical models of muscle function suggests that activators of the fast skeletal troponin complex also cause an increase in muscle power and/or endurance. These pharmacological properties suggest this mechanism of action could have application in conditions, for example, where neuromuscular function is impaired.

Provided are methods for enhancing fast skeletal muscle efficiency in a patient in need thereof, comprising administering to said patient an effective amount of a compound or composition described and/or disclosed herein that selectively binds the troponin complex of fast skeletal muscle fiber or sarcomere. In some embodiments, the compound disclosed and/or described herein activates fast skeletal muscle fibers or sarcomeres. In some embodiments, administration of a compound disclosed and/or described herein results in an increase in fast skeletal muscle power output. In some embodiments, administration of a compound disclosed and/or described herein results in increased sensitivity of fast skeletal muscle fibers or sarcomeres to calcium ion, as compared to fast skeletal muscle fibers or sarcomeres untreated with the compound. In some embodiments, administration of a compound disclosed and/or described herein results in a lower concentration of calcium ions causing fast skeletal muscle myosin to bind to actin. In some embodiments, administration of a compound disclosed and/or described herein results in the fast skeletal muscle fiber generating force to a greater extent at submaximal levels of muscle activation.

Also provided is a method for sensitizing a fast skeletal muscle fiber to

produce force in response to a lower concentration of calcium ion, comprising contacting the fast skeletal muscle fiber with a compound or composition described and/or disclosed herein that selectively binds to troponin complexes in the fast skeletal muscle sarcomere. In some embodiments, contacting the fast skeletal muscle fiber with the compound results in activation of the fast skeletal muscle fiber at a lower calcium ion concentration than in an untreated fast skeletal muscle fiber. In some embodiments, contacting the fast skeletal muscle fiber with the compound results in the production of increased force at a lower calcium ion concentration in comparison with an untreated fast skeletal muscle fiber.

Also provided is a method for increasing time to fast skeletal muscle fatigue in a patient in need thereof, comprising contacting fast skeletal muscle fibers with a compound or composition described and/or disclosed herein that selectively binds to the troponin complexes of the fast skeletal muscle fibers. In some embodiments, the compound binds to form ligand-troponin-calcium ion complexes that activate the fast skeletal muscle fibers. In some embodiments, formation of the complexes and/or activation of the fast skeletal muscle fibers results in enhanced force and/or increased time to fatigue as compared to untreated fast skeletal muscle fibers contacted with a similar calcium ion concentration.

The compounds and pharmaceutical compositions described and/or disclosed herein are capable of modulating the contractility of the fast skeletal sarcomere in vivo, and can have application in both human and animal disease. Modulation would be desirable in a number of conditions or diseases, including, but not limited to, 1) neuromuscular disorders, such as Amyotrophic Lateral Sclerosis (ALS), Spinal Muscular Atrophy (SMA), peripheral neuropathies and myasthenia gravis; 2) disorders of voluntary muscle, including muscular dystrophies, myopathies and conditions of muscle wasting, such as sarcopenia and cachexia syndromes (e.g., cachexia syndromes caused by diseases such as cancer, heart failure, chronic obstructive pulmonary disease (COPD), and chronic kidney disease/dialysis), and rehabilitation-related deficits, such as those associated with recovery from surgery (e.g. post-surgical muscle weakness) prolonged bed rest or stroke rehabilitation; 3) central nervous system (CNS) disorders in which

muscle weakness, atrophy and fatigue are prominent symptoms, such as multiple sclerosis, Parkinson's disease, stroke and spinal cord injury; and 4) muscle symptoms stemming from systemic disorders, including Peripheral Vascular Disease (PVD) or Peripheral Arterial Disease (PAD) (e.g., claudication), metabolic syndrome, chronic fatigue syndrome, obesity and frailty due to aging.

The compounds and compositions described and/or disclosed herein may be used to treat neuromuscular diseases, i.e., diseases that affect any part of the nerve-muscle unit. Neuromuscular diseases include, for example: 1) diseases of the motor unit, including but not limited to Amyotrophic Lateral Sclerosis (ALS) including bulbar and primary lateral sclerosis (PLS) variants; spinal muscular atrophy types 1-4; Kennedy syndrome; post-polio syndrome; motor neuropathies including, for example, critical illness polyneuropathy; multifocal motor neuropathy with conduction block; Charcot-Marie-Tooth disease and other hereditary motor and sensory neuropathies; and Guillain-Barre Syndrome, 2) disorders of the neuromuscular junction, including myasthenia gravis, Lambert-Eaton myasthenic syndrome, and prolonged neuromuscular blockade due to drugs or toxins; and 3) peripheral neuropathies, such as acute inflammatory demyelinating polyradiculoneuropathy, diabetic neuropathy, chronic inflammatory demyelinating polyradiculoneuropathy, traumatic peripheral nerve lesions, neuropathy of leprosy, vasculitic neuropathy, dermatomyositis/polymyositis and neuropathy of Friedreich Ataxia.

The compounds and compositions described and/or disclosed herein may be used to treat disorders of voluntary muscle. Disorders of voluntary muscle include 1) muscular dystrophies (including, for example, Duchenne, Becker, Limb-Girdle, Facioscapulohumeral, limb girdle, Emery-Dreyfus, oculopharyngeal and congenital muscular dystrophies); and 2) myopathies, such as nemaline myopathy, central core disease, congenital myopathies, mitochondrial myopathies, acute myopathy; inflammatory myopathies (such as dermatomyositis/polymyositis and inclusion body myositis), endocrine myopathies (such as those associated with hyper- or hypothyroidism), Cushing's or Addison's syndrome or disease and pituitary gland disorders, metabolic myopathies (such as glycogen storage diseases, e.g., McArdle's

disease, Pompe disease, etc), drug-induced myopathy (statins, ant-retroviral drugs, steroid myopathy) restrictive lung disease, sarcoidosis, Schwartz-Jampel Syndrome, focal muscular atrophies, and distal myopathies.

The compounds and compositions described and/or disclosed herein may be used to treat or Amyotrophic Lateral Sclerosis (ALS). ALS is a disease that generally arises later in life (Age 50+) and has a rapid progression from initial limb weakness to paralysis and death. Common life expectancy after diagnosis is 3-5 years. The cause of disease for most ALS patients is unknown (termed the spontaneous form) while a small proportion of patients have an inherited form (familial) of disease. The condition causes progressive death of motor neurons through causes that are not clear. Surviving motor units attempt to compensate for dying ones by innervating more fibers (termed sprouting) but this can only partially correct muscle function, as muscles are subsequently more prone to problems of coordination and fatigue. Eventually, surviving motor neurons die, resulting in complete paralysis of the affected muscle. The disease is commonly fatal through the eventual loss of innervation to the diaphragm, resulting in respiratory failure. Current treatment options for ALS are limited.

The compounds and compositions described and/or disclosed herein may be used to treat Spinal Muscular Atrophy (SMA). SMA is a genetic disorder that arises through the mutation of a protein, SMN1, that appears to be required for the survival and health of motor neurons. The disease is most common in children as the majority of patients only survive until 11-12 years of age. There is currently no available treatment for SMA.

The compounds and compositions described and/or disclosed herein may be used to treat myasthenia gravis. Myasthenia gravis is a chronic autoimmune neuromuscular disease wherein the body produces antibodies that block, alter, or destroy proteins involved in signaling at the neuromuscular junction, thus preventing muscle contraction from occurring. These proteins include nicotinic acetylcholine receptor (AChR) or, less frequently, a muscle-specific tyrosine kinase (MuSK) involved in AChR clustering (see, e.g., Drachman, N. Eng. J. of Med., 330:1797-1810, 1994). The disease is characterized by varying degrees of weakness of the skeletal (voluntary) muscles of the body. The hallmark of myasthenia gravis is muscle weakness

that increases during periods of activity and improves after periods of rest. Although myasthenia gravis may affect any voluntary muscle, certain muscles, such as those that control eye and eyelid movement, facial expression, chewing, talking, and swallowing are often, but not always, involved in the disorder. The muscles that control breathing and neck and limb movements may also be affected. In most cases, the first noticeable symptom is weakness of the eye muscles. In others, difficulty in swallowing and slurred speech may be the first signs. The degree of muscle weakness involved in myasthenia gravis varies greatly among patients, ranging from a localized form, limited to eye muscles (ocular myasthenia), to a severe or generalized form in which many muscles - sometimes including those that control breathing - are affected. Symptoms, which vary in type and severity, may include a drooping of one or both eyelids (ptosis), blurred or double vision (diplopia) due to weakness of the muscles that control eye movements, unstable or waddling gait, weakness in arms, hands, fingers, legs, and neck, a change in facial expression, difficulty in swallowing and shortness of breath, and impaired speech (dysarthria). Generalized weakness develops in approximately 85% of patients.

The compounds and compositions described and/or disclosed herein may be used to treat sarcopenia, e.g., sarcopenia associated with aging or disease (e.g. HIV infection). Sarcopenia is characterized by a loss of skeletal muscle mass, quality, and strength. Clinically, a decline in skeletal muscle tissue mass (muscle atrophy) contributes to frailty in older individuals. In human males, muscle mass declines by one-third between the ages of 50 and 80. In older adults, extended hospitalization can result in further disuse atrophy leading to a potential loss of the ability for independent living and to a cascade of physical decline. Moreover, the physical aging process profoundly affects body composition, including significant reductions in lean body mass and increases in central adiposity. The changes in overall adiposity and fat distribution appear to be important factors in many common age-related diseases such as hypertension, glucose intolerance and diabetes, dyslipidemia, and atherosclerotic cardiovascular disease. In addition, it is possible that the age-associated decrement in muscle mass, and subsequently in strength and endurance, may be a critical determinant for

functional loss, dependence and disability. Muscle weakness is also a major factor prediposing the elderly to falls and the resulting morbidity and mortality.

The compounds and compositions described and/or disclosed herein may be used to treat cachexia. Cachexia is a state often associated with cancer or other serious diseases or conditions, (e.g, chronic obstructive pulmonary disease, heart failure, chronic kidney disease, kidney dialysis), that is characterized by progressive weight loss, muscle atrophy and fatigue, due to the deletion of adipose tissue and skeletal muscle.

The compounds and compositions described and/or disclosed herein may be used to treat muscular dystrophies. Muscular dystrophy can be characterized by progressive muscle weakness, destruction and regeneration of the muscle fibers, and eventual replacement of the muscle fibers by fibrous and fatty connective tissue.

The compounds and compositions described and/or disclosed herein may be used to treat post-surgical muscle weakness, which is a reduction in the strength of one or more muscles following surgical procedure. Weakness may be generalized (i.e. total body weakness) or localized to a specific area, side of the body, limb, or muscle.

The compounds and compositions described and/or disclosed herein may be used to treat post-traumatic muscle weakness, which is a reduction in the strength of one or more muscles following a traumatic episode (e.g. bodily injury). Weakness may be generalized (i.e. total body weakness) or localized to a specific area, side of the body, limb, or muscle.

The compounds and compositions described and/or disclosed herein may be used to treat muscle weakness and fatigue produced by peripheral vascular disease (PVD) or peripheral artery disease (PAD). Peripheral vascular disease is a disease or disorder of the circulatory system outside of the brain and heart. Peripheral artery disease (PAD), also known as peripheral artery occlusive disease (PAOD), is a form of PVD in which there is partial or total blockage of an artery, usually one leading to a leg or arm. PVD and/or PAD can result from, for example, atherosclerosis, inflammatory processes leading to stenosis, embolus/ thrombus formation, or damage to blood vessels due to disease (e.g., diabetes), infection or injury. PVD and/or PAD can cause either acute or chronic ischemia, typically of the legs. The

symptoms of PVD and/or PAD include pain, weakness, numbness, or cramping in muscles due to decreased blood flow (claudication), muscle pain, ache, cramp, numbness or fatigue that occurs during exercise and is relieved by a short period of rest (intermittent claudication), pain while resting (rest pain) and biological tissue loss (gangrene). The symptoms of PVD and/or PAD often occur in calf muscles, but symptoms may also be observed in other muscles such as the thigh or hip. Risk factors for PVD and/or PAD include age, obesity, sedentary lifestyle, smoking, diabetes, high blood pressure, and high cholesterol (i.e., high LDL, and/or high triglycerides and/or low HDL). People who have coronary heart disease or a history of heart attack or stroke generally also have an increased frequency of having PVD and/or PAD. Activators of the fast skeletal troponin complex have been shown to reduce muscle fatigue and/or to increase the overall time to fatigue in *in vitro* and *in situ* models of vascular insufficiency (see, e.g., Russell et al., "The Fast Skeletal Troponin Activator, CK-2017357, Increases Skeletal Muscle Force and Reduces Muscle Fatigue in vitro and in situ", 5th Cachexia Conference, Barcelona, Spain, December 2009; Hinken et al., "The Fast Skeletal Troponin Activator, CK-2017357, Reduces Muscle Fatigue in an in situ Model of Vascular Insufficiency", Society for Vascular Medicine's 2010 Annual Meeting: 21st Annual Scientific Sessions, Cleveland, OH, April 2010).

The compounds and compositions described and/or disclosed herein may be used to treat symptoms of frailty, e.g., frailty associated with aging. Frailty is characterized by one or more of unintentional weight loss, muscle weakness, slow walking speed, exhaustion, and low physical activity.

The compounds and compositions described and/or disclosed herein may be used to treat muscle weakness and/or fatigue due to wasting syndrome, which is a condition characterized by involuntary weight loss associated with chronic fever and diarrhea. In some instances, patients with wasting syndrome lose 10% of baseline body weight within one month.

The compounds and compositions described and/or disclosed herein may be used to treat muscular diseases and conditions caused by structural and/or functional abnormalities of skeletal muscle tissue, including muscular dystrophies, congenital muscular dystrophies, congenital myopathies, distal myopathies, other myopathies (e.g., myofibrillar, inclusion body), myotonic

syndromes, ion channel muscle diseases, malignant hyperthermias, metabolic myopathies, congenital myasthenic syndromes, sarcopenia, muscle atrophy and cachexia.

The compounds and compositions described and/or disclosed herein also may be used to treat diseases and conditions caused by muscle dysfunction originating from neuronal dysfunction or transmission, including amyotrophic lateral sclerosis, spinal muscular atrophies, hereditary ataxias, hereditary motor and sensory neuropathies, hereditary paraplegias, stroke, multiple sclerosis, brain injuries with motor deficits, spinal cord injuries, Alzheimer's disease, Parkinson's disease with motor deficits, myasthenia gravis and Lambert-Eaton syndrome.

The compounds and compositions described and/or disclosed herein also may be used to treat diseases and conditions caused by CNS, spinal cord or muscle dysfunction originating from endocrine and/or metabolic dysregulation, including claudication secondary to peripheral artery disease, hypothyroidism, hyper- or hypo-parathyroidism, diabetes, adrenal dysfunction, pituitary dysfunction and acid/base imbalances.

The compounds and compositions described and/or disclosed herein may be administered alone or in combination with other therapies and/or therapeutic agents useful in the treatment of the aforementioned disorders.

The compounds and compositions described and/or disclosed herein may be combined with one or more other therapies to treat ALS. Examples of suitable therapies include riluzole, baclofen, diazepam, trihexyphenidyl and amitriptyline. In some embodiments, the compounds and compositions described and/or disclosed herein are combined with riluzole to treat a subject suffering from ALS.

The compounds and compositions described and/or disclosed herein may be combined with one or more other therapies to treat myasthenia gravis. Examples of suitable therapies include administration of anticholinesterase agents (e.g., neostigmine, pyridostigmine), which help improve neuromuscular transmission and increase muscle strength; administration of immunosuppressive drugs (e.g., prednisone, cyclosporine, azathioprine, mycophenolate mofetil) which improve muscle strength by suppressing the production of abnormal antibodies; thymectomy (i.e., the surgical removal of

the thymus gland, which often is abnormal in myasthenia gravis patients); plasmapheresis; and intravenous immune globulin.

The compounds and compositions described and/or disclosed herein may be combined with one or more other therapies to treat PVD or PAD (e.g., claudication). Treatment of PVD and PAD is generally directed to increasing arterial blood flow, such as by smoking cessation, controlling blood pressure, controlling diabetes, and exercising. Treatment can also include medication, such as medicines to help improve walking distance (e.g., cilostazol, pentoxifylline), antiplatelet agents (e.g., aspirin, ticlopidine, clopidogrel), anticoagulents (e.g., heparin, low molecular weight heparin, warfarin, enoxaparin) thrombolytics, antihypertensive agents (e.g., diuretics, ACE inhibitors, calcium channel blockers, beta blockers, angiotensin II receptor antagonists), and cholesterol-lowering agents (e.g., statins). In some patients, angioplasty, stenting, or surgery (e.g., bypass surgery or surgery to remove an atherosclerotic plaque) may be necessary.

Suitable therapeutic agents include, for example, anti-obesity agents, anti-sarcopenia agents, anti-wasting syndrome agents, anti-frailty agents, anti-cachexia agents, anti-muscle spasm agents, agents against post-surgical and post-traumatic muscle weakness, and anti-neuromuscular disease agents.

Suitable additional therapeutic agents include, for example: orlistat, sibramine, diethylpropion, phentermine, benzaphetamine, phendimetrazine, estrogen, estradiol, levonorgestrel, norethindrone acetate, estradiol valerate, ethinyl estradiol, norgestimate, conjugated estrogens, esterified estrogens, medroxyprogesterone acetate, testosterone, insulin-derived growth factor, human growth hormone, riluzole, cannabidiol, prednisone, albuterol, non-steroidal anti-inflammatory drugs, and botulinum toxin.

Other suitable therapeutic agents include TRH, diethylstilbesterol, theophylline, enkephalins, E series prostaglandins, compounds disclosed in U.S. Patent No. 3,239,345 (e.g., zeranol), compounds disclosed in U.S. Patent No. 4,036,979 (e.g., sulbenox), peptides disclosed in U.S. Patent No. 4,411,890, growth hormone secretagogues such as GHRP-6, GHRP-1 (disclosed in U.S. Patent No. 4,411,890 and publications WO 89/07110 and WO 89/07111), GHRP-2 (disclosed in WO 93/04081), NN703 (Novo Nordisk),

LY444711 (Lilly), MK-677 (Merck), CP424391 (Pfizer) and B-HT920, growth hormone releasing factor and its analogs, growth hormone and its analogs and somatomedins including IGF-1 and IGF-2, alpha-adrenergic agonists, such as clonidine or serotonin 5-HT_D agonists, such as sumatriptan, agents which inhibit somatostatin or its release, such as physostigmine, pyridostigmine, parathyroid hormone, PTH(1-34), and bisphosphonates, such as MK-217 (alendronate).

Still other suitable therapeutic agents include estrogen, testosterone, selective estrogen receptor modulators, such as tamoxifen or raloxifene, other androgen receptor modulators, such as those disclosed in Edwards, J. P. et. al., *Bio. Med. Chem. Let.*, 9, 1003-1008 (1999) and Hamann, L. G. et. al., *J. Med. Chem.*, 42, 210-212 (1999), and progesterone receptor agonists ("PRA"), such as levonorgestrel, medroxyprogesterone acetate (MPA).

Other suitable therapeutic agents include anabolic agents, such as selective androgen receptor modulators (SARMs); antagonists of the activin receptor pathway, such as anti-myostatin antibodies or soluble activin receptor decoys, including ACE-031 (Accelaron Pharmaceuticals, a soluble activin receptor type IIB antagonist), MYO-027/PFE-3446879 (Wyeth/Pfizer, an antibody myostatin inhibitor), AMG-745 (Amgen, a peptibody myostatin inhibitor), and an ActRIIB decoy receptor (see Zhou *et al.*, *Cell*, 142, 531–543, August 20, 2010); and anabolic steroids.

Still other suitable therapeutic agents include aP2 inhibitors, such as those disclosed in U.S. Patent No. 6,548,529, PPAR gamma antagonists, PPAR delta agonists, beta 3 adrenergic agonists, such as AJ9677 (Takeda/Dainippon), L750355 (Merck), or CP331648 (Pfizer), other beta 3 agonists as disclosed in U.S. Patent Nos. 5,541,204, 5,770,615, 5,491,134, 5,776,983 and 5,488,064, a lipase inhibitor, such as orlistat or ATL-962 (Alizyme), a serotonin (and dopamine) reuptake inhibitor, such as sibutramine, topiramate (Johnson & Johnson) or axokine (Regeneron), a thyroid receptor beta drug, such as a thyroid receptor ligand as disclosed in WO 97/21993, WO 99/00353, and GB98/284425, and anorectic agents, such as dexamphetamine, phentermine, phenylpropanolamine or mazindol.

Still other suitable therapeutic agents include HIV and AIDS therapies, such as indinavir sulfate, saquinavir, saquinavir mesylate, ritonavir,

lamivudine, zidovudine, lamivudine/zidovudine combinations, zalcitabine, didanosine, stavudine, and megestrol acetate.

Still other suitable therapeutic agents include antiresorptive agents, hormone replacement therapies, vitamin D analogues, elemental calcium and calcium supplements, cathepsin K inhibitors, MMP inhibitors, vitronectin receptor antagonists, Src SH.sub.2 antagonists, vacuolar H⁺-ATPase inhibitors, ipriflavone, fluoride, Tibo lone, pro stanoids, 17-beta hydroxysteroid dehydrogenase inhibitors and Src kinase inhibitors.

The above therapeutic agents, when employed in combination with the compounds and compositions disclosed and/or described herein, may be used, for example, in those amounts indicated in the Physicians' Desk Reference (PDR) or as otherwise determined by one of ordinary skill in the art.

The compounds and compositions disclosed and/or described herein are administered at a therapeutically effective dosage, e.g., a dosage sufficient to provide treatment for the disease state. While human dosage levels have yet to be optimized for the chemical entities described herein, generally, a daily dose ranges from about 0.05 to 100 mg/kg of body weight; in some embodiments, from about 0.10 to 10.0 mg/kg of body weight, and in some embodiments, from about 0.15 to 1.0 mg/kg of body weight. Thus, for administration to a 70 kg person, in some embodiments, the dosage range would be about from 3.5 to 7000 mg per day; in some embodiments, about from 7.0 to 700.0 mg per day, and in some embodiments, about from 10.0 to 100.0 mg per day. The amount of the chemical entity administered will be dependent, for example, on the subject and disease state being treated, the severity of the affliction, the manner and schedule of administration and the judgment of the prescribing physician. For example, an exemplary dosage range for oral administration is from about 70 mg to about 700 mg per day, and an exemplary intravenous administration dosage is from about 70 mg to about 700 mg per day, each depending upon the compound pharmacokinetics.

Administration of the compounds and compositions disclosed and/or described herein can be via any accepted mode of administration for therapeutic agents including, but not limited to, oral, sublingual,

subcutaneous, parenteral, intravenous, intranasal, topical, transdermal, intraperitoneal, intramuscular, intrapulmonary, vaginal, rectal, or intraocular administration. In some embodiments, the compound or composition is administered orally or intravenously. In some embodiments, the compound or composition disclosed and/or described herein is administered orally.

Pharmaceutically acceptable compositions include solid, semi-solid, liquid and aerosol dosage forms, such as tablet, capsule, powder, liquid, suspension, suppository, and aerosol forms. The compounds disclosed and/or described herein can also be administered in sustained or controlled release dosage forms (e.g., controlled/sustained release pill, depot injection, osmotic pump, or transdermal (including electrotransport) patch forms) for prolonged timed, and/or pulsed administration at a predetermined rate. In some embodiments, the compositions are provided in unit dosage forms suitable for single administration of a precise dose.

The compounds disclosed and/or described herein can be administered either alone or in combination with one or more conventional pharmaceutical carriers or excipients (e.g., mannitol, lactose, starch, magnesium stearate, sodium saccharine, talcum, cellulose, sodium crosscarmellose, glucose, gelatin, sucrose, magnesium carbonate). If desired, the pharmaceutical composition can also contain minor amounts of nontoxic auxiliary substances such as wetting agents, emulsifying agents, solubilizing agents, pH buffering agents and the like (e.g., sodium acetate, sodium citrate, cyclodextrine derivatives, sorbitan monolaurate, triethanolamine acetate, triethanolamine oleate). Generally, depending on the intended mode of administration, the pharmaceutical composition will contain about 0.005% to 95%, or about 0.5% to 50%, by weight of a compound disclosed and/or described herein. Actual methods of preparing such dosage forms are known, or will be apparent, to those skilled in this art; for example, see *Remington's Pharmaceutical Sciences*, Mack Publishing Company, Easton, Pennsylvania.

In some embodiments, the compositions will take the form of a pill or tablet and thus the composition may contain, along with a compounds disclosed and/or described herein, one or more of a diluent (e.g., lactose, sucrose, dicalcium phosphate), a lubricant (e.g., magnesium stearate), and/or

a binder (e.g., starch, gum acacia, polyvinylpyrrolidone, gelatin, cellulose, cellulose derivatives). Other solid dosage forms include a powder, marume, solution or suspension (e.g., in propylene carbonate, vegetable oils or triglycerides) encapsulated in a gelatin capsule.

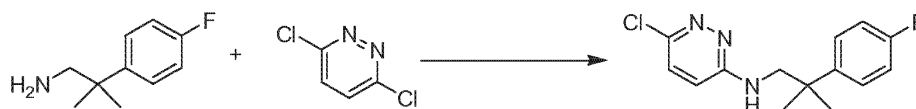
Liquid pharmaceutically administrable compositions can, for example, be prepared by dissolving, dispersing or suspending etc. a compound disclosed and/or described herein and optional pharmaceutical additives in a carrier (e.g., water, saline, aqueous dextrose, glycerol, glycols, ethanol or the like) to form a solution or suspension. Injectables can be prepared in conventional forms, either as liquid solutions or suspensions, as emulsions, or in solid forms suitable for dissolution or suspension in liquid prior to injection. The percentage of the compound contained in such parenteral compositions depends, for example, on the physical nature of the compound, the activity of the compound and the needs of the subject. However, percentages of active ingredient of 0.01% to 10% in solution are employable, and may be higher if the composition is a solid which will be subsequently diluted to another concentration. In some embodiments, the composition will comprise from about 0.2 to 2% of a compound disclosed and/or described herein in solution.

Pharmaceutical compositions of the compounds disclosed and/or described herein may also be administered to the respiratory tract as an aerosol or solution for a nebulizer, or as a microfine powder for insufflation, alone or in combination with an inert carrier such as lactose. In such a case, the particles of the pharmaceutical composition may have diameters of less than 50 microns, or in some embodiments, less than 10 microns.

In addition, pharmaceutical compositions can include a compound disclosed and/or described herein and one or more additional medicinal agents, pharmaceutical agents, adjuvants, and the like. Suitable medicinal and pharmaceutical agents include those described herein.

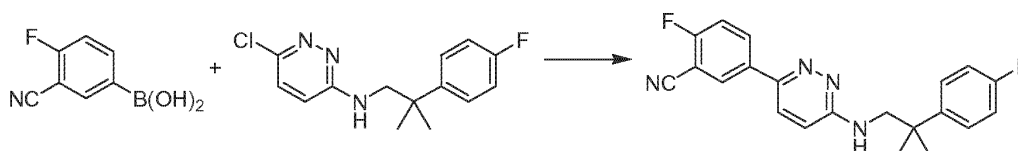
The following examples serve to more fully describe the invention described herein. It is understood that these examples in no way serve to limit the true scope of this invention, but rather are presented for illustrative purposes.

Example 1: Preparation of N-(5-(6-(2-(4-Fluorophenyl)-2-methylpropylamino)pyridazin-3-yl)-1H-indazol-3-yl)acetamide

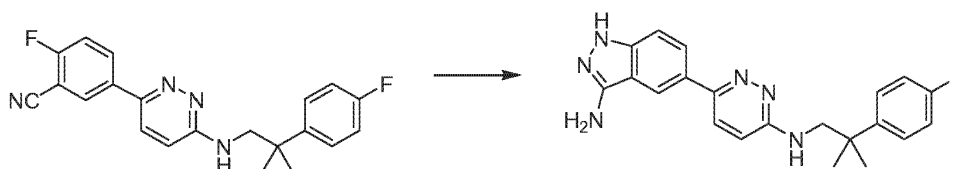


6-Chloro-N-(2-(4-fluorophenyl)-2-methylpropyl)pyridazin-3-amine.

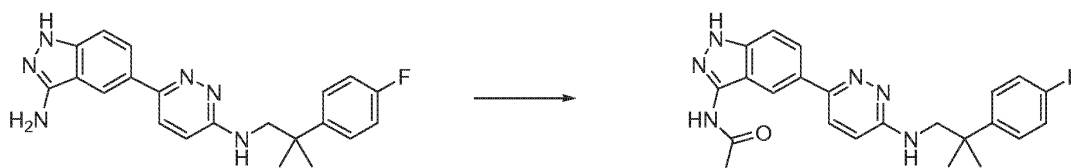
A solution of (2-(4-fluorophenyl)-2-methylpropan-1-amine (27 g, 160 mmol, 1.6 equiv), 3,6-dichloropyridazine (15 g, 100 mmol, 1.0 equiv) and K_2CO_3 (42 g, 302 mmol, 3.0 equiv) in isopropanol (15 mL) was stirred at 100 °C for 36 hours. The cooled mixture was partitioned between water and EtOAc and the organic fraction was dried over Na_2SO_4 and concentrated *in vacuo*. Partial purification over silica gel using a 30 – 75% gradient of EtOAc/hexanes gave the desired product (29.6 g, 103%) which was used without further purification.



2-Fluoro-5-(6-(2-(4-fluorophenyl)-2-methylpropylamino)pyridazin-3-yl)benzonitrile. To a solution of 6-chloro-N-(2-(4-fluorophenyl)-2-methylpropyl)pyridazin-3-amine (5.0 g, 23 mmol, 1.0 equiv) and K_2CO_3 (9.4 g, 68 mmol, 3.0 equiv) in dioxane (35 mL) was added $Pd(dppf)Cl_2$ (1.7 g, 2.3 mmol, 0.1 equiv) and 3-cyano-4-fluorophenylboronic acid (5.0 g, 30 mmol, 1.3 equiv). The mixture was stirred at 80 °C for 3 hours after which it was allowed to cool to room temperature and concentrated *in vacuo*. The residue was diluted with EtOAc, washed with saturated $NaHCO_3$, dried over Na_2SO_4 and evaporated to dryness. The residue was purified by reverse phase HPLC using a CH_3CN /water gradient to give the desired product (5.3 g, 63%).

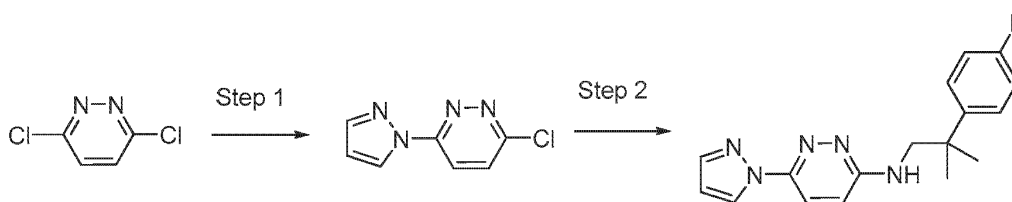


5-(6-(2-(4-Fluorophenyl)-2-methylpropylamino)pyridazin-3-yl)-1H-indazol-3-amine. To a solution of 2-fluoro-5-(6-(2-(4-fluorophenyl)-2-methylpropylamino)pyridazin-3-yl)benzonitrile (0.53 g, 1.5 mmol, 1.0 equiv) in n-butanol (10 mL) was added hydrazine monohydrate (1.0 mL, 32 mmol, 20 equiv). The mixture was stirred at 110 °C for two hours followed by evaporation of the solvents *in vacuo*. Purification on a preparatory TLC plate using 5% MeOH/DCM as eluent gave the desired product (195 mg, 36%), $m/z = 377.1$ [M+H].



N-(5-(6-(2-(4-Fluorophenyl)-2-methylpropylamino)pyridazin-3-yl)-1H-indazol-3-yl)acetamide. To a solution of 5-(6-(2-(4-fluorophenyl)-2-methylpropylamino)pyridazin-3-yl)-1H-indazol-3-amine (50 mg, 133 μ mol) in pyridine (1 mL) was added acetyl chloride (9.5 μ L, 133 μ mol). The mixture was stirred for 15 min, concentrated, purified by reverse phase chromatography using a CH₃CN/water gradient to afford 25 mg of white solid, $m/z = 419.9$ [M+H].

Example 2: Preparation of N-(2-(4-Fluorophenyl)-2-methylpropyl)-6-(1H-pyrazol-1-yl)pyridazin-3-amine

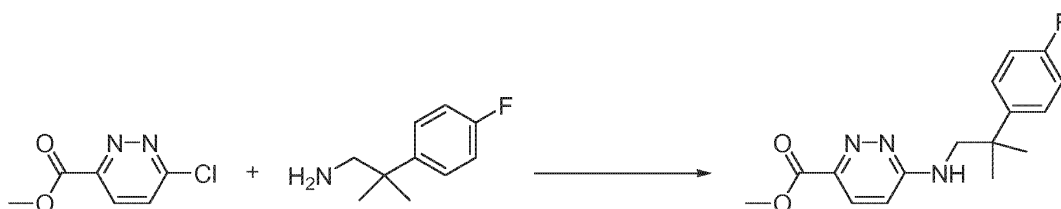


Step 1: To a solution of pyrazole (3.69 g, 25 mmol, 1.0 equiv) in NMP (25 mL) was added sodium hydride (60% dispersion in mineral oil, 1.5 g, 38 mmol, 1.5 equiv). The mixture was stirred for 15 min, followed by the addition of 3,6-dichloropyridazine (3.02 g, 25 mmol, 1.0 equiv). The reaction mixture was stirred for 1.5 h and then diluted with water (50 mL) and ethyl acetate (100 mL). After transferring to a separatory funnel and shaking, the organic

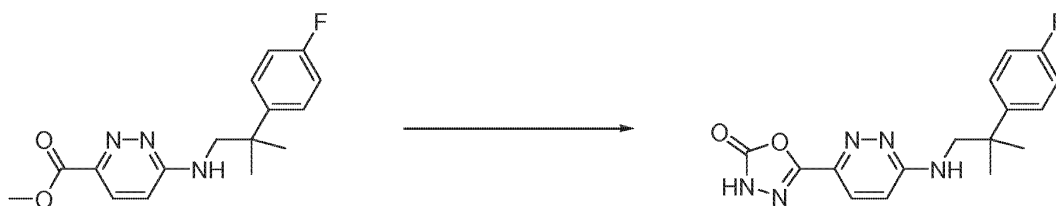
layer was separated from the aqueous layer and then washed with brine (3 x 50 mL). The organic layer was then dried over Na₂SO₄, filtered, and concentrated to give 3.89 g of 3-chloro-6-(1H-pyrazol-1-yl)pyridazine as a crude tan solid that was used directly in the next step.

Step 2: To a 5 mL microwave vial was added 3-chloro-6-(1H-pyrazol-1-yl)pyridazine (320 mg, 1.8 mmol, 1.0 equiv), 2-(4-fluorophenyl)-2-methylpropan-1-amine (386 mg, 2.3 mmol, 1.3 equiv), diisopropylethylamine (620 μ L, 3.6 mmol, 2.0 equiv), and NMP (4 mL). The reaction was heated in a microwave reactor to 250 °C and stirred for 15 min. A portion (roughly a third) of the reaction was purified by reverse phase chromatography and then silica gel chromatography (10% MeOH/DCM) to give 61 mg of N-(2-(4-fluorophenyl)-2-methylpropyl)-6-(1H-pyrazol-1-yl)pyridazin-3-amine, m/z = 312.1 [M+H].

Example 3: Preparation of 5-(6-(2-(4-fluorophenyl)-2-methylpropylamino)pyridazin-3-yl)-1,3,4-oxadiazol-2(3H)-one

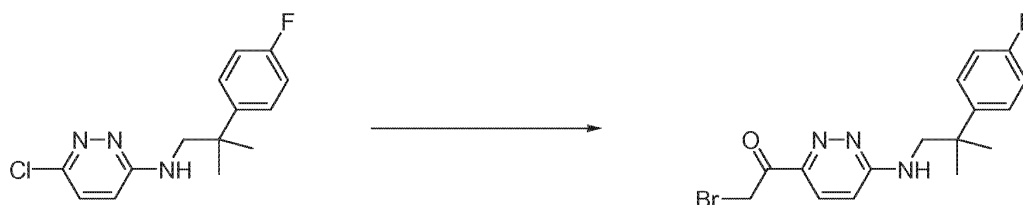


Methyl 6-(2-(4-fluorophenyl)-2-methylpropylamino)pyridazine-3-carboxylate. To a 25 mL round bottom flask was added methyl 6-chloropyridazine-3-carboxylate (0.50 g, 2.90 mmol, 1.0 equiv), 2-(4-fluorophenyl)-2-methylpropan-1-amine (0.60 g, 3.6 mmol, 1.2 equiv), potassium carbonate (300 mg, 2.2 mmol, 0.75 equiv), and isopropanol (3 mL). The reaction mixture was stirred and heated at 120 °C for 12 h. The reaction was then filtered through celite, concentrated, and purified by silica gel chromatography (0-40% EtOAc/hexanes) to afford 360 mg (43%) of methyl 6-(2-(4-fluorophenyl)-2-methylpropylamino)pyridazine-3-carboxylate as an off-white foam.



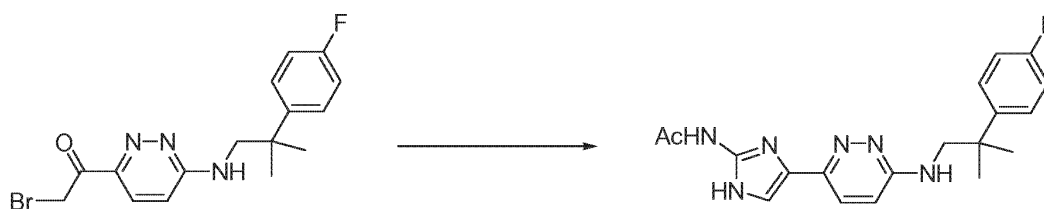
5-(6-(2-(4-Fluorophenyl)-2-methylpropylamino)pyridazin-3-yl)-1,3,4-oxadiazol-2(3H)-one. To a 25 mL round bottom flask was added methyl 6-(2-(4-fluorophenyl)-2-methylpropylamino)pyridazine-3-carboxylate (100 mg, 0.3 mmol, 1.0 equiv), hydrazine hydrate (1 mL), and ethanol (5 mL)). The reaction was refluxed for 2 h and concentrated. N,N'-Carbonyldiimidazole (100 mg, 0.6 mmol, 2.0 equiv) and DMF (1 mL) were then added to the crude product and the reaction was heated to 90 °C for 1.5 h. The reaction mixture was directly purified by reverse phase column chromatography to afford 72 mg (67%) of 5-(6-(2-(4-fluorophenyl)-2-methylpropylamino)pyridazin-3-yl)-1,3,4-oxadiazol-2(3H)-one as a white solid, $m/z = 330.0$ [M+H].

Example 4: Preparation of 6-(2-Amino-1H-imidazol-4-yl)-N-(2-(4-fluorophenyl)-2-methylpropyl)pyridazin-3-amine

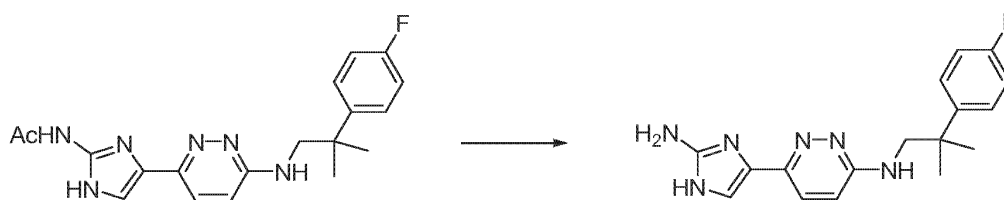


2-Bromo-1-(6-(2-(4-fluorophenyl)-2-methylpropylamino)pyridazin-3-yl)ethanone. 6-chloro-N-(2-(4-fluorophenyl)-2-methylpropyl)pyridazin-3-amine (300 mg, 1.1 mmol, 1.0 equiv) and dioxane (5 mL) were added to a microwave vial and sonication was applied until the mixture was homogeneous. Tributyl(1-ethoxyvinyl)stannane (475 μ L, 1.4 mmol, 1.3 equiv) and trans-dichlorobis(triphenylphosphine)palladium (30 mg, 0.04 mmol, 0.03 equiv) were then added, and the reaction was heated in a microwave reactor at 150 °C for 20 min. The reaction was concentrated, dissolved in EtOAc (25 mL), and mixed with 2.0 M potassium fluoride (5 mL). The mixture was

filtered through celite, and then washed with water, dried over Na_2SO_4 , filtered, and concentrated. The crude solid was redissolved in 50% THF/water (4 mL), followed by the addition of NBS (300 mg, 1.7 mmol, 1.5 equiv). The reaction mixture was stirred for 1 h and then diluted with brine (20 mL) and ethyl acetate (20 mL). After transferring to a separatory funnel and shaking, the organic layer was separated from the aqueous layer. The organic layer was then dried over Na_2SO_4 , filtered, and concentrated to give a brown oil that was purified by silica gel chromatography (0-100% EtOAc/hexanes) to afford 270 mg of 2-bromo-1-(6-(2-(4-fluorophenyl)-2-methylpropylamino)pyridazin-3-yl)ethanone as an orange oil.



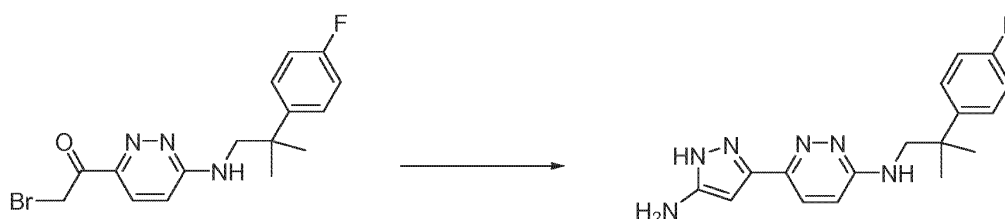
N-(4-(6-(2-(4-Fluorophenyl)-2-methylpropylamino)pyridazin-3-yl)-1H-imidazol-2-yl)acetamide. To a 3 mL microwave reaction vial was added 2-bromo-1-(6-(2-(4-fluorophenyl)-2-methylpropylamino)pyridazin-3-yl)ethanone (125 mg, 0.3 mmol, 1.0 equiv), acetyl guanidine (90 mg, 0.6 mmol, 2.0 equiv) and acetonitrile (2 mL). The reaction was heated in a microwave reactor at 100 °C for 13 min. The reaction was filtered and directly purified by reverse phase column chromatography to afford N-(4-(6-(2-(4-fluorophenyl)-2-methylpropylamino)pyridazin-3-yl)-1H-imidazol-2-yl)acetamide (70 mg) as a white solid. $m/z = 369.2$ $[\text{M}+\text{H}]^+$.



6-(2-Amino-1H-imidazol-4-yl)-N-(2-(4-fluorophenyl)-2-methylpropyl)pyridazin-3-amine. To a 10 mL round bottom flask was added N-(4-(6-(2-(4-fluorophenyl)-2-methylpropylamino)pyridazin-3-yl)-1H-imidazol-2-yl)acetamide (22 mg, 59 μmol), concentrated HCl (100 μL) and

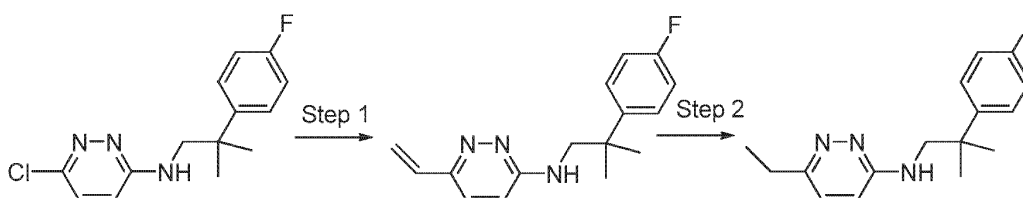
methanol (1 mL). The reaction was refluxed for 12 h and then concentrated, redissolved in EtOAc (10 mL), washed with saturated sodium carbonate (2 x 10 mL) and brine (1 x 10 mL), dried (Na_2SO_4) and concentrated to yield 8 mg (42%) of 6-(2-amino-1H-imidazol-4-yl)-N-(2-(4-fluorophenyl)-2-methylpropyl)pyridazin-3-amine as a pale yellow solid, $m/z = 327.2$ $[\text{M}+\text{H}]$.

Example 5: Preparation of 6-(5-Amino-1H-pyrazol-3-yl)-N-(2-(4-fluorophenyl)-2-methylpropyl)pyridazin-3-amine



To a 20 dram vial was added 2-bromo-1-(6-(2-(4-fluorophenyl)-2-methylpropylamino)pyridazin-3-yl)ethanone (13 mg, 35 μmol , 1.0 equiv), sodium cyanide (25 mg, 500 μmol , 15.0 equiv) and ethanol (1 mL). The reaction mixture was heated to 60 $^{\circ}\text{C}$ for 30 min. After cooling to room temperature, the reaction was filtered. Hydrazine hydrate (250 μL) was then added, and the reaction mixture was heated to 100 $^{\circ}\text{C}$ for 2 h. The reaction was filtered and directly purified by reverse phase column chromatography to afford 6-(5-amino-1H-pyrazol-3-yl)-N-(2-(4-fluorophenyl)-2-methylpropyl)pyridazin-3-amine (2 mg) as a white solid, $m/z = 327.2$ $[\text{M}+\text{H}]$.

Example 6: Preparation of 6-Ethyl-N-(2-(4-fluorophenyl)-2-methylpropyl)pyridazin-3-amine

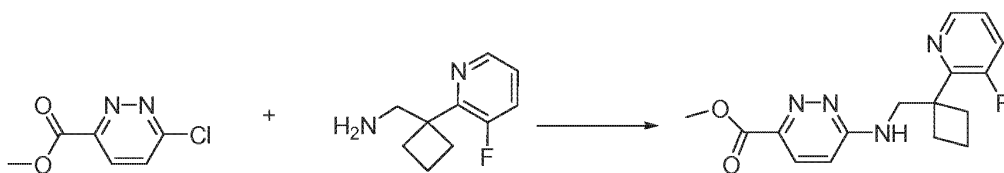


Step 1: To a 5 mL microwave reaction vial was added 6-chloro-N-(2-(4-fluorophenyl)-2-methylpropyl)pyridazin-3-amine (123 mg, 441 μmol , 1.0 equiv), 2,4,6-trivinyl-1,3,5,2,4,6-trioxatriborinane (159 mg, 661 μmol , 1.5

equiv), $\text{Cl}_2\text{Pd}(\text{dppf})$ (54 mg, 66 μmol , 0.15 equiv), potassium carbonate (182 mg, 1.32 mmol, 3 equiv), and dioxane (21 mL). The reaction was heated in a microwave reactor at 140 °C for 12 min and then diluted with water (20 mL) and ethyl acetate (50 mL). After transferring to a separatory funnel and shaking, the organic layer was separated from the aqueous layer and then washed with brine (1 x 20 mL). The organic layer was then dried over Na_2SO_4 , filtered, and concentrated to give a crude solid that was purified by silica gel column chromatography (20-50% EtOAc/hexanes) to give 50 mg (46%) of N-(2-(4-fluorophenyl)-2-methylpropyl)-6-vinylpyridazin-3-amine as a white solid.

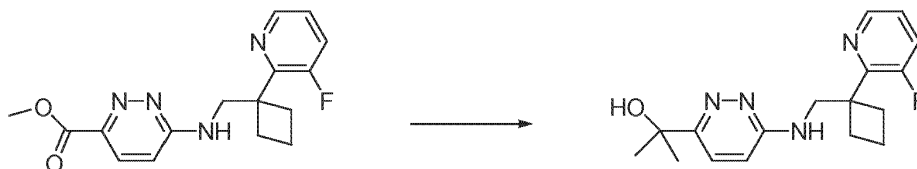
Step 2: The isolated product from Step 1 was dissolved in ethanol (10 mL) and transferred to a 20 dram vial. Palladium (10% on carbon, 10 mg) was then added, and the reaction was stirred under 60 psi of hydrogen for 3 days. The reaction was then filtered, concentrated, and purified by reverse phase column chromatography to afford 3 mg (10%) of 6-ethyl-N-(2-(4-fluorophenyl)-2-methylpropyl) pyridazin-3-amine as a clear oil, $m/z = 274$ $[\text{M}+\text{H}]$.

Example 7: Preparation of 2-(6-((1-(3-Fluoropyridin-2-yl)cyclobutyl)methylamino)pyridazin-3-yl)propan-2-ol



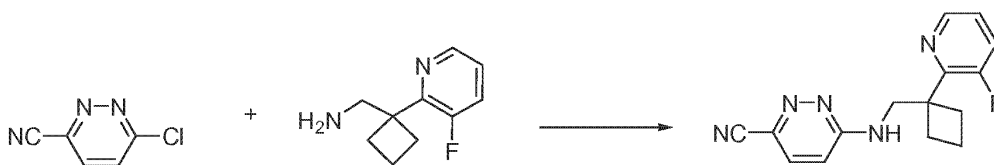
Methyl 6-((1-(3-fluoropyridin-2-yl)cyclobutyl)methylamino)pyridazine-3-carboxylate. To a 20 dram vial was added methyl 6-chloropyridazine-3-carboxylate (510 mg, 2.7 mmol, 1.0 equiv), (1-(3-fluoropyridin-2-yl)cyclobutyl)methanamine (738 mg, 4 mmol, 1.5 equiv), DIPEA (0.7 mL, 4 mmol, 1.5 equiv), and NMP (2 mL). The reaction was heated at 120 °C for 40 min and then diluted with water (20 mL) and ethyl acetate (50 mL). After transferring to a separatory funnel and shaking, the organic layer was separated from the aqueous layer and then washed with brine (1 x 20 mL). The organic layer was then dried over Na_2SO_4 , filtered,

and concentrated to give a crude solid that was purified by silica gel column chromatography (20-100% EtOAc/hexanes) to give 440 mg (48%) of methyl 6-((1-(3-fluoropyridin-2-yl)cyclobutyl)methylamino)pyridazine-3-carboxylate as a white solid. $m/z = 331.1$ $[M+H]^+$.



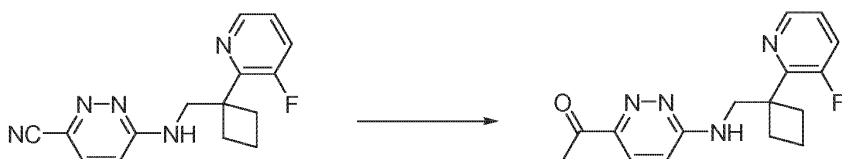
2-(6-((1-(3-Fluoropyridin-2-yl)cyclobutyl)methylamino)pyridazin-3-yl)propan-2-ol. A portion of the isolated methyl 6-((1-(3-fluoropyridin-2-yl)cyclobutyl)methylamino)pyridazine-3-carboxylate (99 mg, 0.3 mmol, 1.0 equiv) was dissolved in THF (10 mL) and transferred to a 20 dram vial. The mixture was cooled to 0 °C and MeMgBr (3M in Et₂O, 0.5 mL, 1.5 mmol, 5 equiv) was added. The reaction was allowed to warm to rt and then stirred for 15 min. The reaction mixture was poured into a mixture of EtOAc (30 mL) and saturated ammonium chloride (15 mL). The organic layer was separated, dried over Na₂SO₄, filtered, and concentrated to give a crude solid that was purified by silica gel column chromatography (0-20% MeOH/CH₂Cl₂) to give 42 mg (43%) of 2-(6-((1-(3-fluoropyridin-2-yl)cyclobutyl)methylamino)pyridazin-3-yl)propan-2-ol as a white powder. $m/z = 317$ $[M+H]^+$.

Example 8: Preparation of 1-(6-((1-(3-Fluoropyridin-2-yl)cyclobutyl)methylamino)pyridazin-3-yl)ethanone



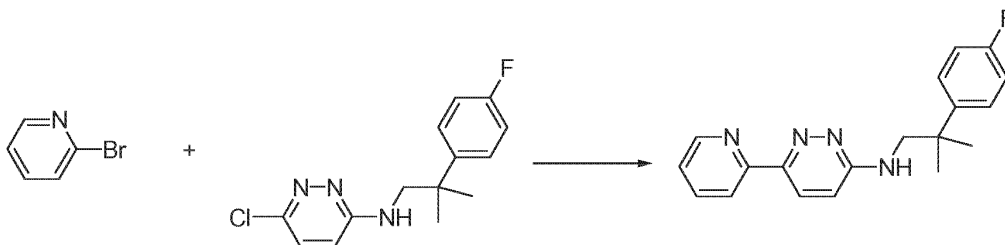
6-((1-(3-Fluoropyridin-2-yl)cyclobutyl)methylamino)pyridazine-3-carbonitrile. To a 20 dram vial was added 6-chloropyridazine-3-carbonitrile (1.0 g, 7.2 mmol, 1.0 equiv), (1-(3-fluoropyridin-2-yl)cyclobutyl)methanamine (1.36 g, 7.6 mmol, 1.05 equiv), triethylamine (2.1 mL, 14.4 mmol, 2.0 equiv), and NMP (2 mL). The reaction was heated at 130 °C for 12 h and then

diluted with water (20 mL) and ethyl acetate (50 mL). After transferring to a separatory funnel and shaking, the organic layer was separated from the aqueous layer and then washed with brine (1 x 20 mL). The organic layer was then dried over Na₂SO₄, filtered, and concentrated to give a crude solid that was purified by silica gel column chromatography (20-30% EtOAc/hexanes) to give 507 mg (25%) of 6-((1-(3-fluoropyridin-2-yl)cyclobutyl)methylamino)pyridazine-3-carbonitrile. $m/z = 284$ [M+H]⁺.



1-(6-((1-(3-Fluoropyridin-2-yl)cyclobutyl)methylamino)pyridazin-3-yl)ethanone. 6-((1-(3-Fluoropyridin-2-yl)cyclobutyl)methylamino)pyridazine-3-carbonitrile (500 mg, 1.8 mmol, 1.0 equiv) was dissolved in THF (4.5 mL) and transferred to a 20 dram vial. The mixture was cooled to 0 °C and MeMgBr (1.8 mL, 5.3 mmol of a 3M solution in Et₂O, 2.9 equiv) was added. The reaction was stirred at this temperature for 15 min. The reaction mixture was poured into ice water, acidified to pH of 2 with 2N aqueous hydrochloric acid, and then extracted EtOAc (30 mL). The organic layer was then separated, dried over Na₂SO₄, filtered, and concentrated to give a crude solid that was purified by silica gel column chromatography (50% EtOAc/hexanes) to give 104 mg (18%) of 1-(6-((1-(3-fluoropyridin-2-yl)cyclobutyl)methylamino)pyridazin-3-yl)ethanone as a white powder. $m/z = 301.1$ [M+H]⁺.

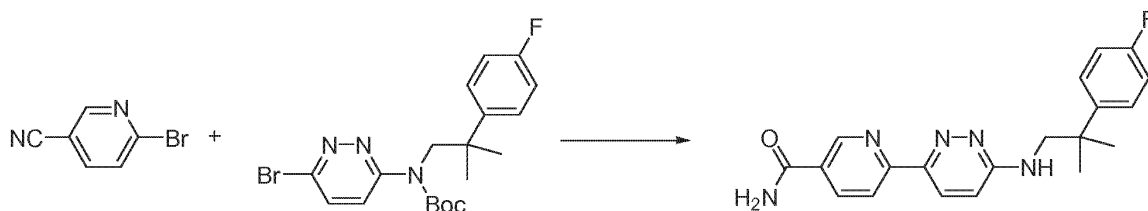
Example 9: Preparation of N-(2-(4-fluorophenyl)-2-methylpropyl)-6-(pyridin-2-yl)pyridazin-3-amine



To a 25 mL round bottom flask was added 2-bromopyridine (500 mg,

3.2 mmol, 1.0 equiv), triisopropylborate (654 mg, 3.5 mmol, 1.1 equiv), and an 80% toluene/THF mixture (16 mL). The mixture was cooled to -78 °C. After stirring for 10 min, *n*-BuLi (1.7 mL, 3.48 mmol, 1.1 equiv of a 2.0 M/hexanes solution) was slowly added over an hour. After the addition was complete, the reaction mixture was stirred for 30 min and allowed to warm to rt and stirred overnight. The reaction was then concentrated at 100 °C and dried in vacuo for 2 h. To 100 mg of this crude solid in a microwave vial was added 6-chloro-N-(2-(4-fluorophenyl)-2-methylpropyl)pyridazin-3-amine (70 mg, 0.25 mmol), Pd₂dba₃ (10 mg, 0.011 mmol), PO(*t*Bu)₃ (5 mg, 0.030 mmol), potassium fluoride (43 mg, 0.75 mmol), and dioxane (0.75 mL). The reaction was degassed with nitrogen for 5 minutes and then heated in a microwave reactor at 160 °C for 15 min. The reaction was then concentrated, dissolved in EtOAc (25 mL), washed with water, dried over Na₂SO₄, filtered, concentrated, and purified by reverse phase column chromatography to give 5 mg of N-(2-(4-fluorophenyl)-2-methylpropyl)-6-(pyridin-2-yl)pyridazin-3-amine as a white solid. *m/z* = 323.1 [M+H]⁺.

Example 10: Preparation of 6-(6-(2-(4-fluorophenyl)-2-methylpropylamino)pyridazin-3-yl)nicotinamide

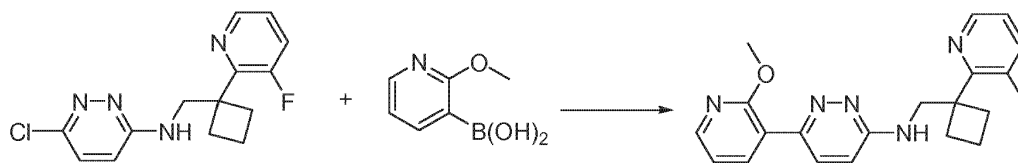


To a 20 dram vial was added 2-bromo-5-cyanopyridine (182 mg, 1.0 mmol, 1.0 equiv), hexamethylditin (639 mg, 1.1 mmol, 1.1 equiv), Cl₂Pd(Ph₃P)₂ (91 mg, 0.13 mmol, 0.13 equiv), triphenylarsine (34 mg, 0.11 mmol, 0.11 equiv), and dioxane (7 mL). The reaction mixture was stirred and heated to 80 °C for 12 h. The reaction was then concentrated, followed by the addition of *tert*-butyl 6-bromopyridazin-3-yl(2-(4-fluorophenyl)-2-methylpropyl)carbamate (423 mg, 1.0 mmol, 1.0 equiv), Pd(Ph₃P)₄ (172 mg, 0.15 mmol, 0.15 equiv), and DMF (3.3 mL). The reaction was stirred and heated to 100 °C for 3 h. After cooling to room temperature, the reaction was

diluted with aqueous potassium fluoride (5 mL), extracted with ethyl acetate (20 mL) and washed with brine (20 mL). The organic layer was then dried (Na_2SO_4), filtered, and concentrated to give crude *tert*-butyl 6-(5-cyanopyridin-2-yl)pyridazin-3-yl(2-(4-fluorophenyl)-2-methylpropyl)carbamate.

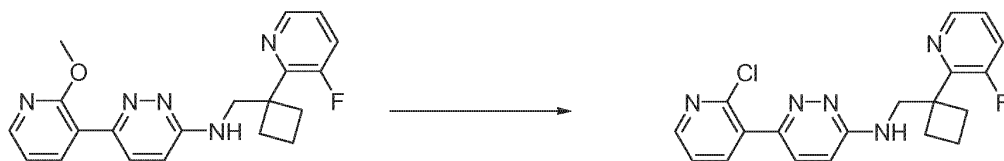
To a 20 dram vial was added crude *tert*-butyl 6-(5-cyanopyridin-2-yl)pyridazin-3-yl(2-(4-fluorophenyl)-2-methylpropyl)carbamate, hydrogen peroxide (2 mL), and potassium carbonate (150 mg). The reaction was stirred for 30 min and then diluted with water (20 mL) and ethyl acetate (50 mL). After transferring to a separatory funnel and shaking, the organic layer was separated from the aqueous layer and then washed with brine (20 mL). The organic layer was then dried over Na_2SO_4 , filtered, and concentrated to give a crude solid that was subsequently treated with 4N HCl/dioxane (1 mL). The reaction was stirred for 1 h at room temperature, concentrated, quenched with aqueous sodium bicarbonate, and extracted with ethyl acetate (20 mL). The organic layer was then dried (Na_2SO_4), filtered, and concentrated to give a crude solid that was purified by reverse phase column chromatography to afford 10 mg of 6-(6-(2-(4-fluorophenyl)-2-methylpropylamino)pyridazin-3-yl)nicotinamide, $m/z = 366.1$ [M+H].

Example 11: Preparation of 6-(2-aminopyridin-3-yl)-N-((1-(3-fluoropyridin-2-yl)cyclobutyl)methyl)pyridazin-3-amine



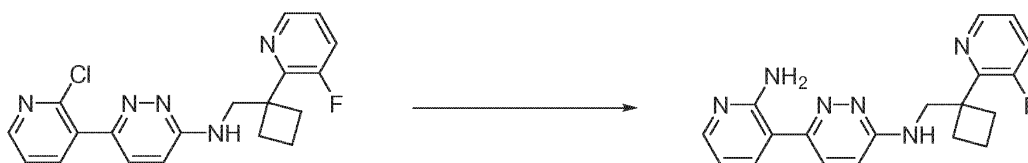
N-((1-(3-Fluoropyridin-2-yl)cyclobutyl)methyl)-6-(2-methoxypyridin-3-yl)pyridazin-3-amine. To a 20 dram vial was added 6-chloro-N-((1-(3-fluoropyridin-2-yl)cyclobutyl)methyl)pyridazin-3-amine (1.8 g, 6.23 mmol, 1.0 equiv), 2-methoxypyridin-3-ylboronic acid (1.0 g, 6.54 mmol, 1.1 equiv), $\text{Cl}_2\text{Pd}(\text{dppf})$ (350 mg, 0.43 mmol, 0.07 equiv), 2M potassium carbonate (8 mL, 15.5 mmol, 2.5 equiv), and dioxane (21 mL). The reaction was stirred and heated to 90 °C for 2h and then diluted with water (20 mL) and ethyl acetate (50 mL). After transferring to a separatory funnel and

shaking, the organic layer was separated from the aqueous layer and then washed with lithium chloride (1 x 20 mL). The organic layer was then dried over Na₂SO₄, filtered, and concentrated to give a crude solid that was purified by silica gel column chromatography to give N-((1-(3-fluoropyridin-2-yl)cyclobutyl)methyl)-6-(2-methoxypyridin-3-yl)pyridazin-3-amine (1.7 g, 77%) as an off-white solid.



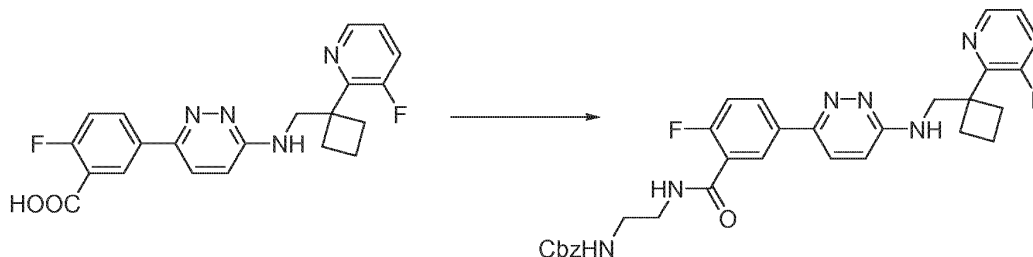
6-(2-Chloropyridin-3-yl)-N-((1-(3-fluoropyridin-2-

yl)cyclobutyl)methyl)pyridazin-3-amine. To a 50 mL round bottom flask was added N-((1-(3-fluoropyridin-2-yl)cyclobutyl)methyl)-6-(2-methoxypyridin-3-yl)pyridazin-3-amine (1.7 g, 4.7 mmol), concentrated hydrochloric acid (15 mL), and methanol (15 mL). The reaction was heated to 90 °C and stirred for 12 h. The reaction was concentrated, brought to pH of 11 through the addition of saturated potassium carbonate (20 mL), and then diluted with ethyl acetate (50 mL). After transferring to a separatory funnel and shaking, the organic layer was separated from the aqueous layer and washed with lithium chloride (1 x 20 mL). The organic layer was then dried over Na₂SO₄, filtered, and concentrated to give 3-(6-((1-(3-fluoropyridin-2-yl)cyclobutyl)methylamino)pyridazin-3-yl)pyridin-2-ol (1.6 g, 95%) as a tan powder. The isolated product (1.3 g, 3.7 mmol, 1.0 equiv) was transferred to a 100 mL round bottom flask, followed by the addition of a mixture of phosphorous oxytrichloride (24 mL) and DMF (8 mL). The reaction was heated to 90 °C and stirred for 6 h. The reaction was concentrated and carefully quenched with a 50% mixture of saturated sodium bicarbonate and lithium chloride until gas evolution ceased. The mixture was extracted with ethyl acetate (100 mL). The combined organic layers were then dried over Na₂SO₄, filtered, concentrated, and purified by silica gel column chromatography to give 1.2 g (88%) of 6-(2-chloropyridin-3-yl)-N-((1-(3-fluoropyridin-2-yl)cyclobutyl)methyl)pyridazin-3-amine as an off-white solid.



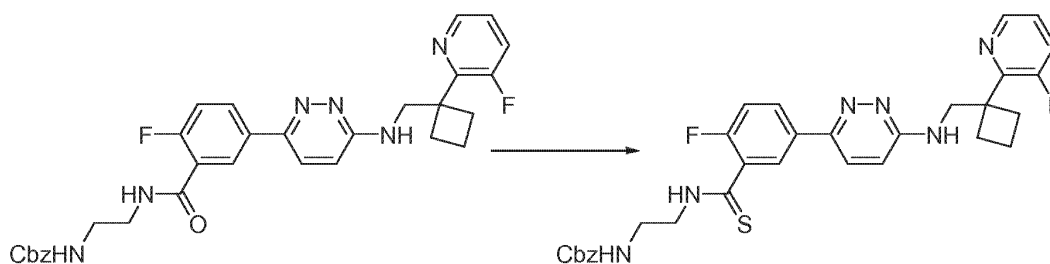
6-(2-Aminopyridin-3-yl)-N-((1-(3-fluoropyridin-2-yl)cyclobutyl)methyl)pyridazin-3-amine. To a 5 mL microwave reaction vessel was added 6-(2-chloropyridin-3-yl)-N-((1-(3-fluoropyridin-2-yl)cyclobutyl)methyl)pyridazin-3-amine (750 mg, 2.0 mmol), hydrazine hydrate (1 mL), and dioxane (4 mL). The reaction was heated in a microwave reactor to 160 °C for 15 min, then diluted with ethyl acetate (50 mL), and washed with brine (20 mL). The organic layer was dried over Na₂SO₄, filtered, and concentrated to give a crude solid that was purified by reverse phase column chromatography to give 150 mg of N-((1-(3-fluoropyridin-2-yl)cyclobutyl)methyl)-6-(2-hydrazinylpyridin-3-yl)pyridazin-3-amine as an off-white solid. The isolated product was then dissolved in methanol and added to a vial containing ~1 mL of Raney Nickel suspension in water. The mixture was then stirred under 50 psi of hydrogen for 2 h. The reaction was then filtered, concentrated, and purified by reverse phase column chromatography to give 10 mg (88%) of 6-(2-aminopyridin-3-yl)-N-((1-(3-fluoropyridin-2-yl)cyclobutyl)methyl)pyridazin-3-amine as an off-white solid, m/z = 351.1 [M+H].

Example 12: Preparation of N1-(5-(6-((1-(3-Fluoropyridin-2-yl)cyclobutyl)methylamino) pyridazin-3-yl)-1H-indazol-3-yl)ethane-1,2-diamine

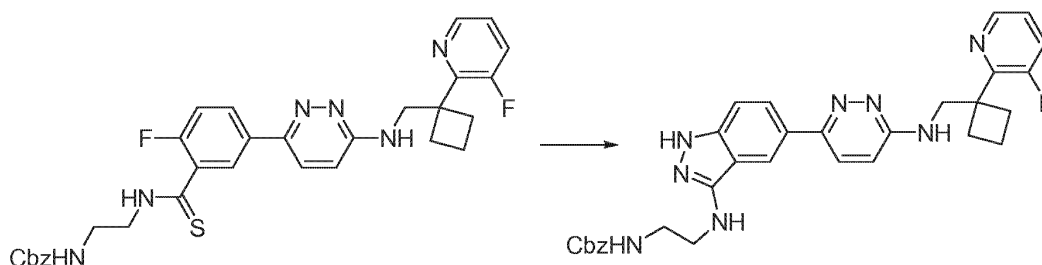


Benzyl 2-(2-Fluoro-5-(6-((1-(3-fluoropyridin-2-yl)cyclobutyl)methylamino)pyridazin-3-yl)benzamido)ethylcarbamate. To

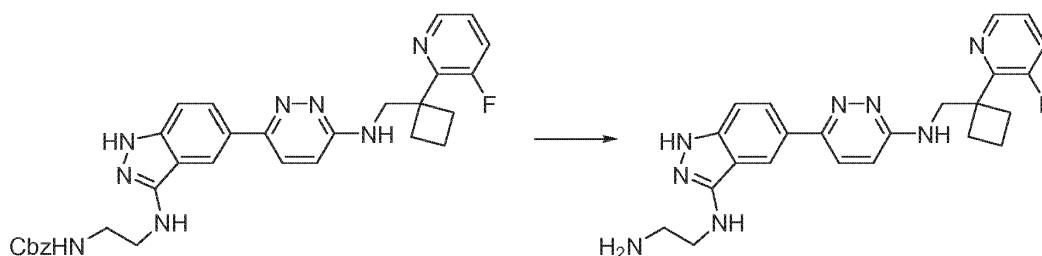
a 20 dram vial was added 2-fluoro-5-(6-((1-(3-fluoropyridin-2-yl)cyclobutyl)methylamino)pyridazin-3-yl)benzoic acid (320 mg, 0.8 mmol, 1.0 equiv), benzyl 2-aminoethylcarbamate (242 mg, 1.0 mmol, 1.3 equiv), HOBt (141 mg, 1.0 mmol, 1.3 equiv), EDC HCl (200 mg, 1.0 mmol, 1.3 equiv), DIPEA (550 μ L, 3.8 equiv) and CH_2Cl_2 (5 mL). The reaction was stirred for 4 h and then concentrated and then purified using a silica gel column (50%-100% EtOAc/hexanes) to afford 230 mg (50%) of benzyl 2-(2-fluoro-5-(6-((1-(3-fluoropyridin-2-yl)cyclobutyl)methylamino)pyridazin-3-yl)benzamido)ethylcarbamate as a white foam.



Benzyl 2-(2-fluoro-5-(6-((1-(3-fluoropyridin-2-yl)cyclobutyl)methylamino)pyridazin-3-yl)phenylthioamido)ethylcarbamate. In a 20 dram vial containing benzyl 2-(2-fluoro-5-(6-((1-(3-fluoropyridin-2-yl)cyclobutyl)methylamino)pyridazin-3-yl)benzamido)ethylcarbamate (230 mg, 0.5 mmol, 1 equiv) was added Lawesson's reagent (162 mg, 0.4 mmol, 0.8 equiv) and dioxane (10 mL). The reaction was heated to 100 $^{\circ}\text{C}$ and stirred for 1 h, concentrated, and then purified using a silica gel column (35%-100% EtOAc/hexanes) to give 203 mg (86%) of benzyl 2-(2-fluoro-5-(6-((1-(3-fluoropyridin-2-yl)cyclobutyl)methylamino)pyridazin-3-yl)phenylthioamido)ethylcarbamate as a pale yellow oil.

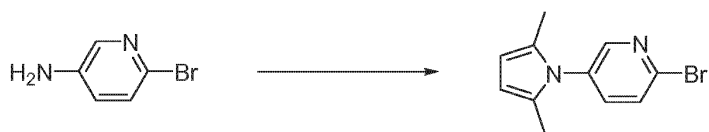


Benzyl 2-(5-(6-((1-(3-fluoropyridin-2-yl)cyclobutyl)methylamino)pyridazin-3-yl)-1H-indazol-3-ylamino)ethylcarbamate. The isolated benzyl 2-(2-fluoro-5-(6-((1-(3-fluoropyridin-2-yl)cyclobutyl)methylamino)pyridazin-3-yl)phenylthioamido)ethyl-carbamate was transferred to a 20 dram vial, followed by the addition of hydrazine hydrate (0.1 mL) and dioxane (2 mL). The reaction was heated to 100 °C and stirred for 12 h, concentrated, and then purified using a silica gel column (5%-10% MeOH/EtOAc) to yield 48 mg (25%) of benzyl 2-(5-(6-((1-(3-fluoropyridin-2-yl)cyclobutyl)methylamino)pyridazin-3-yl)-1H-indazol-3-ylamino)ethylcarbamate as a pale yellow oil.

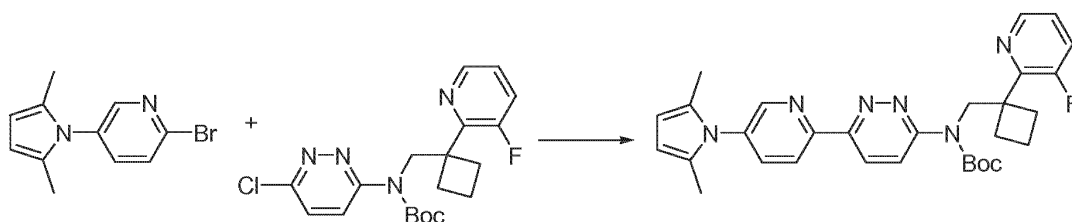


N1-(5-(6-((1-(3-Fluoropyridin-2-yl)cyclobutyl)methylamino)pyridazin-3-yl)-1H-indazol-3-yl)ethane-1,2-diamine. Benzyl 2-(5-(6-((1-(3-fluoropyridin-2-yl)cyclobutyl)methylamino)pyridazin-3-yl)-1H-indazol-3-ylamino)ethylcarbamate (48 mg, 84 μ mol) was dissolved in acetonitrile (5 mL), and TMSI (0.5 mL) was added. The reaction was stirred for 15 min, diluted with methanol (15 mL), concentrated, and was directly purified by reverse phase column chromatography to yield 20 mg (88%) of N1-(5-(6-((1-(3-fluoropyridin-2-yl)cyclobutyl)methylamino)pyridazin-3-yl)-1H-indazol-3-yl)ethane-1,2-diamine as a yellow solid, m/z = 433 [M+H].

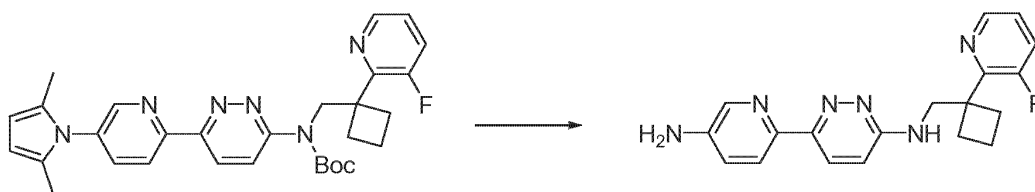
Example 13: Preparation of 6-(5-Aminopyridin-2-yl)-N-((1-(3-fluoropyridin-2-yl)cyclobutyl)methyl)pyridazin-3-amine



2-Bromo-5-(2,5-dimethyl-1H-pyrrol-1-yl)pyridine. To a 25 mL round bottom flask was added 5-amino-2-bromopyridine (600 mg, 3.5 mmol, 1.0 equiv), hexane-2,5-dione (420 mg, 4.2 mmol, 1.2 equiv), *p*-toluenesulfonic acid (5 mg), and toluene (3.5 mL). A Dean-Stark trap was fitted on top of the round bottom flask and the reaction mixture was heated to reflux for 2 h. The reaction was then concentrated and purified by silica gel column chromatography (5% ethyl acetate/hexanes) to give 660 mg (76%) of 2-bromo-5-(2,5-dimethyl-1H-pyrrol-1-yl)pyridine.

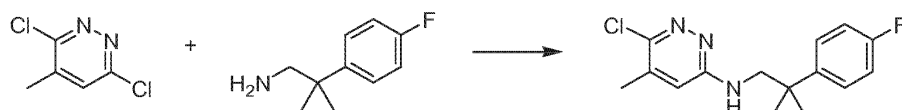


***tert*-Butyl 6-(5-(2,5-dimethyl-1H-pyrrol-1-yl)pyridin-2-yl)pyridazin-3-yl((1-(3-fluoropyridin-2-yl)cyclobutyl)methyl)carbamate.** THF (8.5 mL) was cooled to -78 °C under a nitrogen atmosphere. *t*BuLi (1.7 mL, 2.9 mmol, 2.0 equiv) was added, followed by the addition of 2-bromo-5-(2,5-dimethyl-1H-pyrrol-1-yl)pyridine (370 mg, 1.47 mmol, 1.0 equiv dissolved in 2 mL THF) over 2 min. The reaction was stirred for 45 min at -78 °C. Zinc chloride (510 mg, 3.75 mmol, 2.5 equiv dissolved in 5 mL of THF) was added and the reaction was allowed to warm to rt and stirred for 3 h. (*t*-Bu₃P)₂Pd (41 mg, 0.015 mmol, 0.10 equiv dissolved in 5 mL of THF) and *t*-butyl 6-chloropyridazin-3-yl((1-(3-fluoropyridin-2-yl)cyclobutyl)methyl)carbamate (393 mg, 0.1 mmol, 0.07 equiv dissolved in 5 mL of THF) were added and the reaction was refluxed for 4 h followed by dilution with sodium bicarbonate (20 mL), and extraction with ethyl acetate (40 mL). The organic layer was dried over Na₂SO₄, filtered, and concentrated to give a crude solid that was purified by silica gel column chromatography (35% EtOAc/hexanes) to give 245 mg (46%) of *tert*-butyl 6-(5-(2,5-dimethyl-1H-pyrrol-1-yl)pyridin-2-yl)pyridazin-3-yl((1-(3-fluoropyridin-2-yl)cyclobutyl)methyl)carbamate.



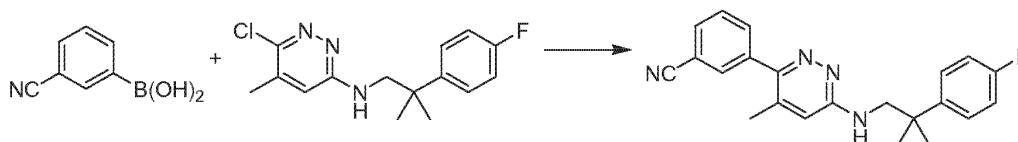
6-(5-Aminopyridin-2-yl)-N-((1-(3-fluoropyridin-2-yl)cyclobutyl)methyl)pyridazin-3-amine. To a 20 dram vial was added *tert*-butyl 6-(5-(2,5-dimethyl-1H-pyrrol-1-yl)pyridin-2-yl)pyridazin-3-yl((1-(3-fluoropyridin-2-yl)cyclobutyl)methyl)carbamate (245 mg, 0.5 mmol) and a 5 mL of a 50% mixture of TFA and CH₂Cl₂. The reaction was stirred for 15 min, concentrated, and then diluted with sodium bicarbonate (20 mL) and extracted with ethyl acetate (40 mL). The organic layer was dried over Na₂SO₄, filtered, and concentrated to give a crude solid that was purified by silica gel column chromatography (60% EtOAc/hexanes) to give 91 mg (46%) of 6-(5-(2,5-dimethyl-1H-pyrrol-1-yl)pyridin-2-yl)-N-((1-(3-fluoropyridin-2-yl)cyclobutyl)methyl)pyridazin-3-amine. This product was transferred to a 100 mL round bottom flask to which was added hydroxylamine hydrochloride (270 mg), triethylamine (5 mL), and ethanol (20 mL). The reaction mixture was heated to reflux overnight and then concentrated, diluted with sodium bicarbonate (20 mL) and extracted with ethyl acetate (40 mL). The organic layer was dried over Na₂SO₄, filtered, and concentrated to give a crude solid that was purified by reverse phase column chromatography to afford 28 mg of 6-(5-aminopyridin-2-yl)-N-((1-(3-fluoropyridin-2-yl)cyclobutyl)methyl)pyridazin-3-amine, *m/z* = 351.2 [M+H].

Example 14: Preparation of 3-(6-(2-(4-Fluorophenyl)-2-methylpropylamino)-4-methylpyridazin-3-yl)benzamide



6-Chloro-N-(2-(4-fluorophenyl)-2-methylpropyl)-5-methylpyridazin-3-amine. A solution of (2-(4-fluorophenyl)-2-methylpropan-1-amine (5.5 g, 33 mmol, 1.8 equiv), 3,6-dichloro-4-methylpyridazine (3.0 g, 18 mmol, 1.0 equiv) and K₂CO₃ (5.1 g, 37 mmol, 2.0 equiv) in isopropanol (7.5 mL) was stirred at

100 °C under a blanket of nitrogen for 18 hours. The cooled mixture was partitioned between water and EtOAc and the organic fraction was concentrated *in vacuo*. Purification over silica gel using a 20 – 35% gradient of EtOAc/hexanes gave the desired product (0.80 g, 15%) of a yellow oil which was determined by HPLC to be a 5:1 mixture of regioisomers by HPLC.



2-Fluoro-5-(6-(2-(4-fluorophenyl)-2-methylpropylamino)-4-methylpyridazin-3-yl)benzonitrile. To a solution of 6-chloro-N-(2-(4-fluorophenyl)-2-methylpropyl)-5-methylpyridazin-3-amine (0.8 g, 2.7 mmol, 1.0 equiv) and 2 M aqueous K_2CO_3 (2.0 mL, 8.2 mmol, 3.0 equiv) in dioxane (14 mL) was added $Pd(dppf)Cl_2$ (0.11 g, 0.14 mmol, 0.05 equiv) and 3-cyanophenylboronic acid (0.48 g, 3.3 mmol, 1.2 equiv). The mixture was stirred at 80 °C for 2 hours under a blanket of nitrogen. This was followed by addition of another 100 mg (0.68 mmol, 0.25 equiv) of the boronic acid and 30 mg (0.037 mmol, 0.013 equiv) of $Pd(dppf)Cl_2$ and another 1 h of heating at 100 °C. The mixture was allowed to cool to room temperature and then was diluted with EtOAc. The solution was washed with 50% NaCl solution, dried over Na_2SO_4 and evaporated to dryness. The residue was purified by over silica gel using a 20 – 50% EtOAc/hexanes stepwise gradient to give the desired product (850 mg, 86%) as a single regioisomer.



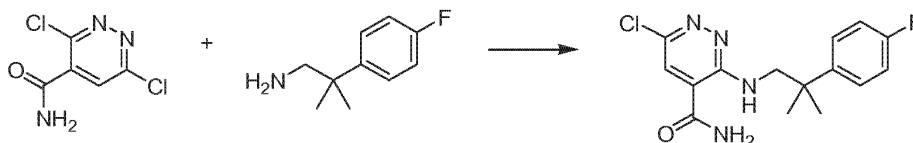
3-(6-(2-(4-Fluorophenyl)-2-methylpropylamino)-4-methylpyridazin-3-yl)benzamide. A 0 °C solution of 2-fluoro-5-(6-(2-(4-fluorophenyl)-2-methylpropylamino)-4-methylpyridazin-3-yl)benzonitrile (0.80 g, 2.2 mmol, 1.0 equiv), 30% hydrogen peroxide (0.45 mL, 4.4 mmol, 2.0 equiv), and K_2CO_3 (600 mg, 4.4 mmol, 2.0 equiv) in DMSO (9.0 mL) was stirred for 1 hour. The mixture was diluted with EtOAc, washed with saturated NaCl, water and saturated NaCl again, and then dried over Na_2SO_4 . Purification by reverse

phase HPLC using a gradient of 20 – 70% CH₃CN/water gave the desired product (420 mg, 51%) as a yellow solid. $m/z = 379.1$ [M+H]⁺.

Example 15: Preparation of 3-(5-Cyano-6-(2-(4-fluorophenyl)-2-methylpropylamino)pyridazin-3-yl)benzamide



3,6-Dichloropyridazine-4-carboxamide. A solution of NH₄OH (1.1 mL, 17 mmol, 1.2 equiv) and diisopropylethylamine (6.2 mL, 36 mmol, 2.1 equiv) in THF (57 mL) was sonicated until homogeneous after which was added DMAP (1.0 g, 14 mmol, 1.0 equiv). 3,6-dichloropyridazine-4-carboxamide (3.0 g, 14 mmol, 1.0 equiv) was then added and the solution was stirred at room temperature for 20 minutes. The solution was filtered and partitioned between EtOAc and 1 M KHSO₄ solution. The organic layer was washed once more with 1 M KHSO₄ and saturated NaCl, dried over Na₂SO₄, and evaporated to dryness to give the desired product (2.6 g, 96%).

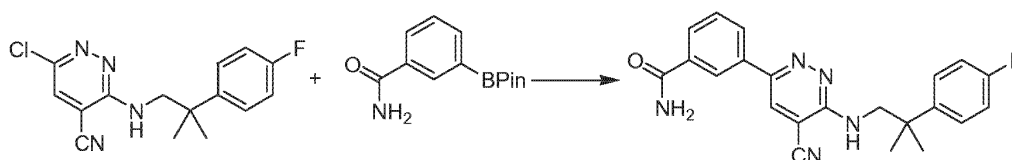


6-Chloro-3-(2-(4-fluorophenyl)-2-methylpropylamino)pyridazine-4-carboxamide. Using a similar procedure as was used for 6-chloro-N-(2-(4-fluorophenyl)-2-methylpropyl)-5-methylpyridazin-3-amine in example 14, 3,6-dichloropyridazine-4-carboxamide (2.6 g, 13 mmol, 1.0 equiv), (2-(4-fluorophenyl)-2-methylpropan-1-amine (2.5 g, 15 mmol, 1.1 equiv), and diisopropylethylamine (2.8 mL, 16 mmol, 1.2 equiv) in CH₃CN (54 mL) was heated at 60 – 90 °C for 48 hours. The product was purified over silica gel with 100% EtOAc to give the desired product (3.4 g, 78%) as a yellow foamy solid.



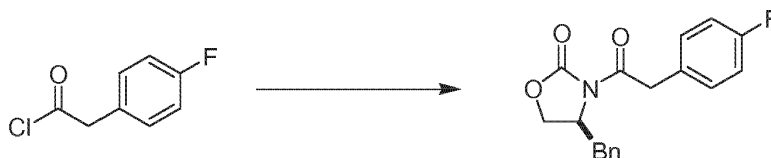
6-Chloro-3-(2-(4-fluorophenyl)-2-methylpropylamino)pyridazine-4-

carbonitrile. To a portion of 6-chloro-3-(2-(4-fluorophenyl)-2-methylpropylamino)pyridazine-4-carboxamide (3.4 g, 11 mmol, 1.0 equiv) was added POCl₃ (10 mL) at room temperature. The mixture was stirred at reflux for 3 hours and then quenched by pouring it into ice water containing NaHCO₃. Dioxane and EtOAc were added to facilitate mixing of the layers. The layers were allowed to separate and the aqueous layer was extracted with EtOAc and the combined organic phases were washed with saturated NaCl. The organics were dried over Na₂SO₄ and evaporated to dryness in vacuo. Purification over silica gel using a gradient of 10 – 20 % EtOAc/hexanes yielded the desired product (0.60 g, 19%) as a yellow oil.



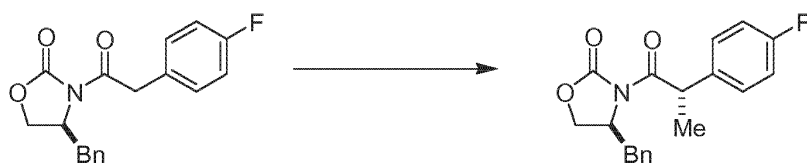
3-(5-Cyano-6-(2-(4-fluorophenyl)-2-methylpropylamino)pyridazin-3-yl)benzamide. To a solution of 6-chloro-3-(2-(4-fluorophenyl)-2-methylpropylamino)pyridazine-4-carbonitrile (550 mg, 1.8 mmol, 1.0 equiv), 3-aminocarbonylphenylboronic acid, pinacol ester (330 mg, 2.0 mmol, 1.1 equiv) and aqueous K₂CO₃ (2.0 M, 5.0 mL, 5.4 mmol, 3.0 equiv) in dioxane (18 mL) was added Pd(dppf)Cl₂ (150 mg, 0.18 mmol, 0.1 equiv). The mixture was stirred at 120 °C for 10 minutes in a microwave and allowed to cool to room temperature. The solvents were evaporated in vacuo, and the residue was dissolved in dichloromethane. The solution was filtered and the solvent dried over Na₂SO₄. Purification over silica gel using a gradient of 40 – 80% EtOAc/hexanes gave a yellow solid that was slurried with CH₃CN to give the desired product (30 mg, 4.3%) as a yellow solid. m/z = 390.2 [M+H]⁺.

Example 16: Preparation of (S)-2-(4-Fluorophenyl)propan-1-amine



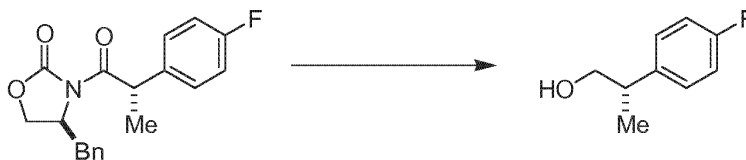
(S)-4-Benzyl-3-(2-(4-fluorophenyl)acetyl)oxazolidin-2-one. To a cooled (-78 °C) solution of (S)-4-benzyl-3-(2-(4-fluorophenyl)acetyl)oxazolidin-2-one (10 g, 58 mmol, 1.0

equiv) in 100 mL THF was added dropwise *n*-BuLi (40 mL, 1.6 M in hexanes, 64 mmol, 1.1 equiv). After stirring for 30 minutes, 4-fluorophenylacetyl chloride (10 g, 0.58 mmol, 1.0 equiv) was added dropwise. After stirring for an additional 30 minutes, the reaction mixture was allowed to warm to room temperature. The reaction was quenched with saturated aq. NH₄Cl, extracted with dichloromethane, and washed with brine. The organic layer was then dried over sodium sulfate, filtered, and concentrated *in vacuo*. Purification by silica gel (10 – 20% EtOAc/hexanes) provided the title compound as a thick oil (14.7 g, 81%).



(S)-4-Benzyl-3-((S)-2-(4-fluorophenyl)propanoyl)oxazolidin-2-one.

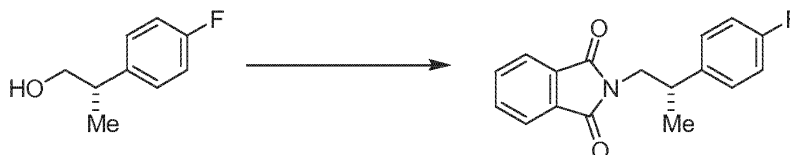
To a room-temperature solution of (S)-4-benzyl-3-(2-(4-fluorophenyl)acetyl)oxazolidin-2-one (5.1 g, 16.3 mmol, 1.0 equiv) in dry THF (100 mL) was added iodomethane (1.0 mL, 16.2 mmol, 1.0 equiv) by syringe. The resulting mixture was cooled to -78 °C, and NaHMDS (8.15 mL, 2M in THF, 16.3 mmol, 1.0 equiv) was added dropwise by syringe. After stirring for 15 minutes at -78 °C, the reaction mixture was allowed to warm to room temperature. The reaction was quenched with saturated aq. NH₄Cl, and diluted with EtOAc. The organic layer was washed with brine, dried over Na₂SO₄, filtered and concentrated *in vacuo*. Purification by silica gel chromatography (7 – 20% EtOAc/hexanes) provided the title compound (2.6 g, 49%).



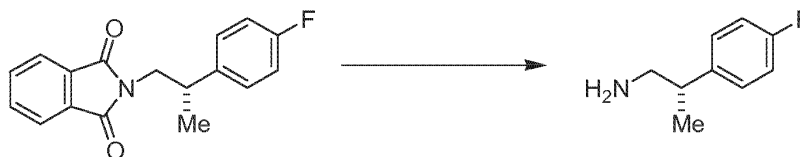
(S)-2-(4-Fluorophenyl)propan-1-ol.

To a room-temperature solution of (S)-4-benzyl-3-((S)-2-(4-fluorophenyl)propanoyl)oxazolidin-2-one (1.8 g, 5.5 mmol, 1.0 equiv) in THF (18 mL) was added a solution of NaBH₄ (1.0 g, 26.4 mmol, 4.8 equiv) in water (6.0 mL). The reaction mixture was stirred for 3 h at room temperature and then quenched by the careful addition of aq. 1 M HCl. The reaction mixture was diluted with water and ethyl acetate. The

layers were separated and the organic layer was subsequently washed with brine, dried over Na_2SO_4 , filtered and concentrated *in vacuo*. Purification by silica gel chromatography (10 – 75% EtOAc/Hexanes) provided the title compound (0.824 g, 97%).



(S)-2-(2-(4-Fluorophenyl)propyl)isoindoline-1,3-dione. To a solution of (S)-2-(4-fluorophenyl)propan-1-ol (0.82 g, 5.35 mmol, 1.0 equiv), phthalimide (0.82 g, 5.6 mmol, 1.05 equiv), and triphenyl phosphine (2.1 g, 8.03 mmol, 1.5 equiv) in dry THF (18 mL) was added dropwise diethylazodicarboxylate (3.6 mL, 15% in toluene, 8.0 mmol, 1.5 equiv). The reaction mixture was stirred over 72 h and then concentrated *in vacuo*. Purification by silica gel chromatography (15 – 25% EtOAc/Hexanes) provided the title compound (0.9 g, 59%).



(S)-2-(4-Fluorophenyl)propan-1-amine. To a room-temperature solution of (S)-2-(2-(4-fluorophenyl)propyl)isoindoline-1,3-dione (900 mg, 3.2 mmol, 1.0 equiv) in toluene (14 mL) was added hydrazine hydrate (1.4 mL, 45 mmol, 14 equiv) by syringe. The resulting mixture was heated to 80 °C for 30 minutes and then cooled to room temperature. The resulting solution was decanted from the solid in the reaction mixture, and the solid was washed with additional toluene. The combined organic layers were combined and concentrated *in vacuo* to provide the title compound (491 mg, 99%), which was used without further purification.

Example 17: Preparation of 2-(4-Fluorophenyl)-2-methylpropan-1-amine



To a solution of 4-fluorophenylacetonitrile (50 g, 370 mmol, 1.0 equiv)

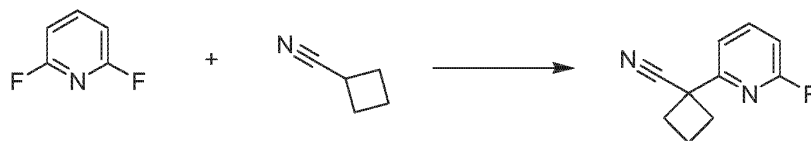
and iodomethane (70 mL, 1.1 mol, 3 equiv) in THF (370 mL) was added KO^t-Bu (124 g, 1.1 mol, 3 equiv) as a solid in portions such that the reaction mixture did not exceed 50 °C. The reaction mixture was stirred overnight and then quenched by the addition of brine. The mixture was diluted with EtOAc and washed twice with brine. The organic layer was dried over Na₂SO₄, filtered, and concentrated *in vacuo* to provide 2-(4-fluorophenyl)-2-methylpropanenitrile as a yellow oil (57 g, 94%), which was used without further purification in the next step. To a solution of the nitrile in dry THF (800 mL) was added a solution of lithium aluminum hydride (210 mL, 2 M in ether, 420 mmol, 1.2 equiv). After the mixture was heated at reflux overnight, the reaction was allowed to cool to room temperature, and a Fieser and Fieser work-up (300 uL water/mmol, 1.0 mL 3N NaOH/mmol, 300 uL water/mmol) was performed. Filtration of the resulting solids provided the title compound as an orange oil (57 g, 92%).

Example 18: Preparation (1-(4-Fluorophenyl)cyclobutyl)methanamine

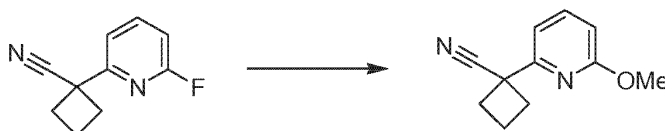


A solution of 4-fluorophenylacetonitrile (6.7 g, 75 mmol, 1.5 equiv), 1,3-dibromopropane (10 mL, 50 mmol, 1 equiv), KOH (27 g, 150 mmol, 3.0 equiv), and tetrabutylammonium bromide (100 mg) in toluene (135 mL) was heated to 100 °C for 3 hours. The organic layer was separated and concentrated to dryness. Silica gel chromatography using a gradient of 0 – 30% EtOAc/hexanes resulted in partially purified product which was further purified by Kugelrohr distillation at 200 °C to provide 3.76 g (22 mmol) of the intermediate nitrile product as an oil. The residue was dissolved in dry THF (22 mL) and treated with a solution of LAH (27 mL, 2 M in ether, 55 mmol, 2.5 equiv). The mixture was stirred at 0 °C for 2 hours followed by a Fieser and Fieser work-up (38 uL water/mmol, 118 uL 3N NaOH/mmol, 38 uL water/mmol). The organic layer was concentrated to dryness to provide the desired product (3.6 g, 40% overall) as a yellow oil.

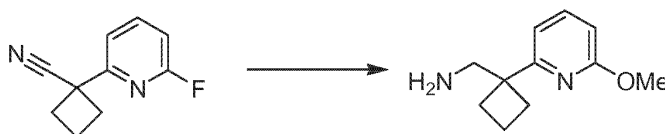
Example 19: Preparation of (1-(6-Methoxypyridin-2-yl)cyclobutyl)methanamine



1-(6-Fluoropyridin-2-yl)cyclobutanecarbonitrile. Following the same procedure as described for 2-(3-fluoropyridin-2-yl)acetonitrile (Example 18), 2,6-difluoropyridine (5.0 g, 43 mmol, 1.0 equiv), cyclobutylcarbonitrile (3.5 g, 43 mmol, 1.0 equiv) and NaHMDS (2.0 M in THF, 24 mL, 47 mmol, 1.1 equiv) in toluene (100 mL) gave the desired product (4.9 g, 64%) as a colorless oil following purification over silica gel using 25% EtOAc/hexanes as eluent.



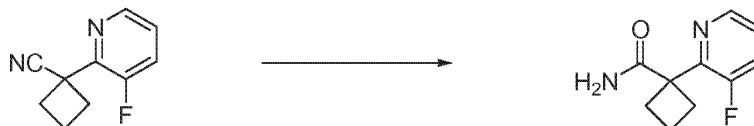
1-(6-Methoxypyridin-2-yl)cyclobutanecarbonitrile. To stirred 6.0 mL of anhydrous methanol at 0 °C under nitrogen was added sodium metal (~1 g) and the mixture stirred for 30 minutes. To this was added 1-(6-fluoropyridin-2-yl)cyclobutanecarbonitrile (1.6 g, 9.1 mmol) and the resulting mixture heated to 75 °C for 45 minutes. The solution was cooled to room temperature and partitioned between water and EtOAc. The layers were separated, the aqueous phase was extracted with EtOAc, and the combined organic phases were washed with saturated NaCl, dried over Na₂SO₄ and concentrated *in vacuo* to give the desired product (1.7 g, 97%) as a colorless oil.



(1-(6-Methoxypyridin-2-yl)cyclobutyl)methanamine. To a stirred solution of 1-(6-methoxypyridin-2-yl)cyclobutanecarbonitrile (1.7 g, 8.8 mmol, 1.0 equiv) in THF (20 mL) was added lithium aluminum hydride solution (1.0 M in THF, 11 mL, 11 mmol, 1.1 equiv). The mixture was refluxed for 1.5 hours and allowed to cool to room temperature. Water (0.43 mL) was added slowly followed by 0.43 mL of 3 M NaOH and then three additions of 0.43 mL

of water (Fieser and Fieser workup). The resulting mixture was filtered through diatomaceous earth and rinsed with THF. The combined organics were dried over Na_2SO_4 and concentrated to dryness to give the desired product (1.6 g, 97%) as a viscous oil.

Example 20: Preparation of 1-(3-Fluoropyridin-2-yl)cyclobutanamine



1-(3-Fluoropyridin-2-yl)cyclobutanecarboxamide. To a 250 mL round bottom flask containing DMSO (60 mL), 1-(3-fluoropyridin-2-yl)cyclobutanecarbonitrile (2.96 g, 16.8 mmol, 1.0 equiv) was added and the mixture was stirred until homogenous. Potassium carbonate (7.0 g, 50.4 mmol, 3.0 equiv) was then added and the reaction mixture was cooled to 0 °C, followed by the addition of 35% hydrogen peroxide (6.5 mL). The reaction was stirred at 0 °C for 30 min and then warmed to room temperature. At this time, the reaction was diluted with water (50 mL) and ethyl acetate (100 mL). After transferring to a separatory funnel and shaking, the organic layer was separated from the aqueous layer and then washed with brine (3 x 50 mL). The organic layer was then dried over Na_2SO_4 , filtered, and concentrated to give a crude solid that was purified by silica gel chromatography (10% EtOAc/hexanes) to afford 1.92 g (59%) of 1-(3-fluoropyridin-2-yl)cyclobutanecarboxamide as a white solid.



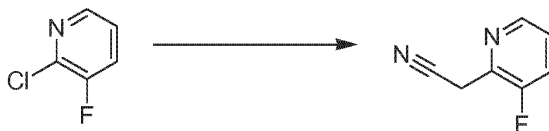
Methyl 1-(3-fluoropyridin-2-yl)cyclobutylcarbamate. 1-(3-fluoropyridin-2-yl)cyclobutanecarboxamide (1.92 g, 9.88 mmol, 1.0 equiv) was dissolved in methanol (20 mL) and potassium hydroxide (1.11 g, 19.8 mmol, 2.0 equiv) was added. The mixture was sonicated until homogeneous, followed by the addition of iodosobenzene diacetate (4.77 g, 14.8 mmol, 1.5 equiv). The reaction was stirred for 20 min and then diluted with water (100 mL) and ethyl acetate (125 mL). After transferring to a separatory funnel and shaking, the organic layer was separated from the aqueous layer, and the

aqueous layer was extracted with EtOAc (50 mL). The combined organic layers were then dried over Na₂SO₄, filtered, and concentrated to give a crude oil that was purified by silica gel chromatography (40% EtOAc/hexanes) to afford 1.47 g (67%) of methyl 1-(3-fluoropyridin-2-yl)cyclobutylcarbamate as a white solid.

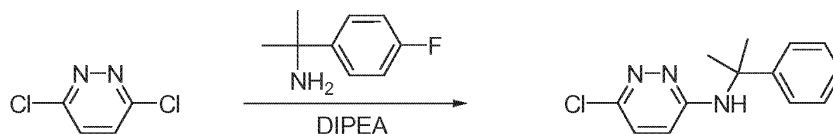


1-(3-Fluoropyridin-2-yl)cyclobutanamine. To a 20 mL microwave reaction vial was added methyl 1-(3-fluoropyridin-2-yl)cyclobutylcarbamate (1.47 g, 6.56 mmol), ethanol (12 mL) and 3N aqueous sodium hydroxide (7 mL). The reaction mixture was heated in the microwave reactor at 150 °C for 30 min. The ethanol was evaporated under reduced pressure and the mixture was extracted with ethyl acetate (30 mL). The aqueous layer was then extracted with ethyl acetate (2 x 30 mL). The organic layers were combined, dried over Na₂SO₄, filtered, and concentrated to give 1-(3-fluoropyridin-2-yl)cyclobutanamine (1.01 g, 93%) as a crude yellow oil that was used in the next reaction step without further purification.

Example 21: Preparation of 2-(3-Fluoropyridin-2-yl)acetonitrile



To a 0 °C solution of 2-chloro-3-fluoropyridine (3.0 g, 23 mmol, 1.0 equiv) and acetonitrile (1.3 mL, 25 mmol, 1.1 equiv) in toluene (50 mL) was added sodium hexamethyldisilazide (NaHMDS) (2.0 M in THF, 13 mL, 25 mmol, 1.1 equiv). The resulting mixture was stirred for 2 hours at 0 °C and then partitioned between EtOAc and water. The aqueous layer was extracted with EtOAc and the combined organic phases were washed with saturated NaCl, dried over Na₂SO₄ and concentrated *in vacuo* to provide the crude desired product as an oil which was used without further purification.

Example 22: Preparation of 6-Chloro-N-(2-phenylpropan-2-yl)pyridazin-3-amine

To a 5 mL microwave reaction vial was added 3,6-dichloropyridazine (544 mg, 3.7 mmol, 1.0 equiv), cumylamine (500 mg, 3.7 mmol, 1.0 equiv), and DIPEA (640 μ L, 3.7 mmol, 1.0 equiv). The reaction was heated in a microwave reactor to 225 °C for 15 min and then diluted with brine (20 mL) and extracted with ethyl acetate (40 mL). The organic layer was dried over Na_2SO_4 , filtered, and concentrated to give a crude solid that was purified by silica gel column chromatography (20% EtOAc/hexanes) to yield 48 mg (5%) of 6-chloro-N-(2-phenylpropan-2-yl)pyridazin-3-amine as a white solid.

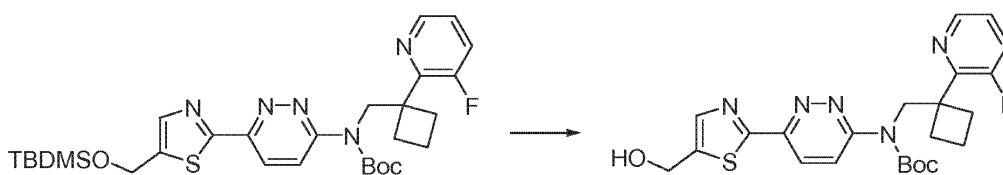
Example 23: Preparation of 2-(2-(6-((1-(3-fluoropyridin-2-yl)cyclobutyl)methylamino)pyridazin-3-yl)thiazol-5-yl)acetamide

5-((t-Butyldimethylsilyloxy)methyl)thiazole. Thiazole-5-methanol (65 g, 0.56 mol), imidazole (58 g, 0.85 mol), and CH_2Cl_2 (700 mL) were added to a round bottom flask, followed by TBSCl (93 g, 0.62 mol). The reaction was stirred for 20 min and the resultant white solid was filtered off. The filtrate was washed with saturated sodium bicarbonate, dried over sodium sulfate, concentrated, and purified by silica gel chromatography (10% EtOAc/hexanes) to afford 140 g of 5-((t-butyldimethylsilyloxy)methyl)thiazole as a clear oil.

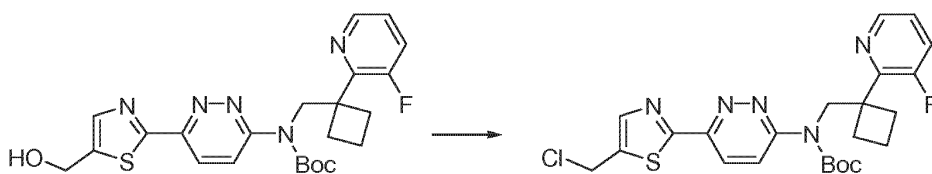


t-butyl 6-(5-((t-butyldimethylsilyloxy)methyl)thiazol-2-yl)pyridazin-3-yl((1-(3-fluoropyridin-2-yl)cyclobutyl)methyl)carbamate. To a stirring mixture of THF (2000 mL) and diisopropylamine (79.3 mL, 0.56 mol) at -78 °C was added *n*-BuLi (244 mL, 0.56 mol) dropwise. After stirring for 20 min at -

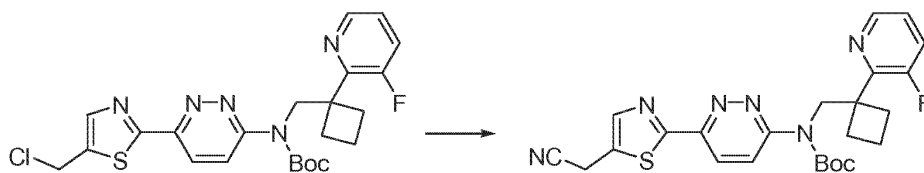
78 °C, a solution of 5-((*t*-butyldimethylsilyloxy)methyl)thiazole (110.9 g, 0.49 mol in 300 mL of THF) was added dropwise to the reaction mixture while maintaining a temperature less than -70 °C. After the addition was complete, the reaction was stirred for an additional 30 min and a solution of zinc bromide (126.6 g, 0.56 mol in 300 mL of THF) was added dropwise to the reaction mixture while maintaining a temperature less than -65 °C. The reaction was warmed to 0 °C, stirred for 30 min, and added to a stirring mixture of *t*-butyl 6-chloropyridazin-3-yl((1-(3-fluoropyridin-2-yl)cyclobutyl)methyl)carbamate (100 g, 0.26 mol), tetrakis(triphenylphosphine)palladium(0) (56 g, 0.05 mol), and THF (2000 mL) heated to 80 °C. The reaction mixture was stirred overnight at 80 °C. The reaction was concentrated and then slurried in ethyl acetate and brine. The resultant solid was filtered off, and the filtrate was dried over sodium sulfate, concentrated, and purified twice by silica gel chromatography (EtOAc/hexanes) to afford 112.5 g of *t*-butyl 6-(5-((tert-butyldimethylsilyloxy)methyl)thiazol-2-yl)pyridazin-3-yl((1-(3-fluoropyridin-2-yl)cyclobutyl)methyl)carbamate as a dark oil.



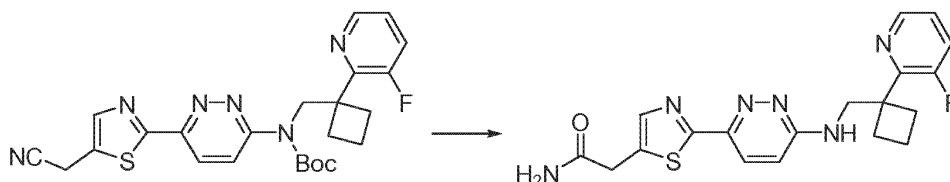
***t*-butyl (1-(3-fluoropyridin-2-yl)cyclobutyl)methyl(6-(5-(hydroxymethyl)thiazol-2-yl)pyridazin-3-yl)carbamate.** To a solution of *t*-butyl 6-(5-((tert-butyldimethylsilyloxy)methyl)thiazol-2-yl)pyridazin-3-yl((1-(3-fluoropyridin-2-yl)cyclobutyl)methyl)carbamate (112.5 g, 0.19 mol) in THF (1000 mL) was added TBAF (105 mL, 0.29 mol, 75% w/w). The reaction was stirred for 30 min followed by the addition of ammonium chloride (200 mL). The organic layer was separated, washed with brine (300 mL x 3), and concentrated (this wash was repeated once). Ethyl acetate was added to the oil, resulting in a white solid. Filtration of the solid afforded 44 g of *t*-butyl (1-(3-fluoropyridin-2-yl)cyclobutyl)methyl(6-(5-(hydroxymethyl)thiazol-2-yl)pyridazin-3-yl)carbamate.



***t*-butyl 6-(5-(chloromethyl)thiazol-2-yl)pyridazin-3-yl((1-(3-fluoropyridin-2-yl)cyclobutyl)methyl)carbamate.** To a solution of *t*-butyl (1-(3-fluoropyridin-2-yl)cyclobutyl)methyl(6-(5-(hydroxymethyl)thiazol-2-yl)pyridazin-3-yl)carbamate (44.1 g, 93.8 mmol) in dioxane (235 mL) was added thionyl chloride (27.3 mL, 375.3 mmol). The reaction was stirred until it was homogeneous. The reaction was then slowly quenched by pouring into a mixture of saturated potassium carbonate solution and ethyl acetate. The organic layer was then separated, dried over Na₂SO₄, filtered, concentrated, and purified by silica gel chromatography (EtOAc/hexanes) to afford 33.1 g of *t*-butyl 6-(5-(chloromethyl)thiazol-2-yl)pyridazin-3-yl((1-(3-fluoropyridin-2-yl)cyclobutyl)methyl)carbamate as a white solid.



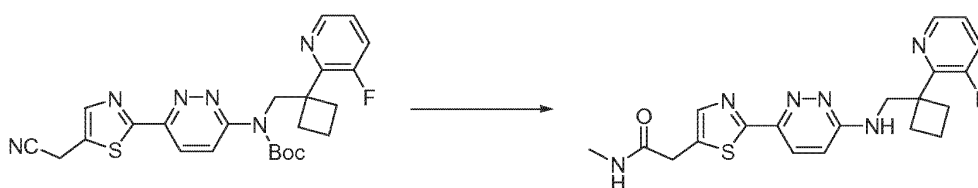
***t*-butyl 6-(5-(cyanomethyl)thiazol-2-yl)pyridazin-3-yl((1-(3-fluoropyridin-2-yl)cyclobutyl)methyl)carbamate.** To a solution of *t*-butyl 6-(5-(chloromethyl)thiazol-2-yl)pyridazin-3-yl((1-(3-fluoropyridin-2-yl)cyclobutyl)methyl)carbamate (33.1 g, 68 mmol) in CH₂Cl₂ (450 mL) was added tetrabutylammonium cyanide (36 g, 135 mmol). The reaction was heated to 45 °C and stirred for 1 h, followed by concentration and purification by silica gel chromatography (EtOAc/hexanes) to afford 13.4 g of *t*-butyl 6-(5-(cyanomethyl)thiazol-2-yl)pyridazin-3-yl((1-(3-fluoropyridin-2-yl)cyclobutyl)methyl)carbamate as an off-white solid.



2-(2-(6-((1-(3-fluoropyridin-2-yl)cyclobutyl)methylamino)pyridazin-3-yl)thiazol-5-yl)acetamide. To a solution of *t*-butyl 6-(5-

(cyanomethyl)thiazol-2-yl)pyridazin-3-yl((1-(3-fluoropyridin-2-yl)cyclobutyl)methyl)carbamate (12.5 g, 26.0 mmol) in DMSO (260 mL) was added potassium carbonate (14.4 g, 104.1 mmol). The mixture was cooled to 0 °C and hydrogen peroxide (86 mL) was slowly added. The reaction was warmed to rt and stirred for 90 min. The reaction was diluted with EtOAc (200 mL) and water (500 mL), and the organic layer was washed three times with brine (150 mL). The organic layer was then dried over Na₂SO₄, filtered, and concentrated to give a crude solid that was purified by silica gel chromatography (CH₃CN/CH₂Cl₂) to afford 6.2 g of *t*-butyl 6-(5-(2-amino-2-oxoethyl)thiazol-2-yl)pyridazin-3-yl((1-(3-fluoropyridin-2-yl)cyclobutyl)methyl)carbamate as a reddish solid. This compound was combined with other batches (15.5 g overall), dissolved in 25% TFA/CH₂Cl₂, and stirred for 1 h. The reaction was then concentrated, dissolved in ethyl acetate (75 mL), and washed three times with potassium carbonate. The organic layer was then dried over Na₂SO₄, filtered, and concentrated to give a crude solid that was recrystallized with THF to give 10.8 g of 1-(2-((3-fluoro-1-(3-fluoropyridin-2-yl)cyclobutyl)methylamino)pyrimidin-5-yl)-1H-pyrrole-3-carboxamide as an off-white solid (M+H=399.1).

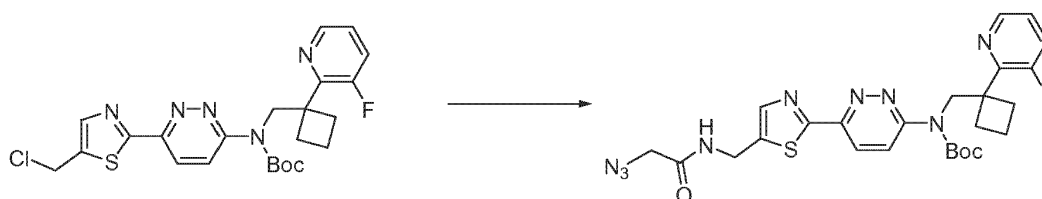
Example 24: Preparation of 2-(2-(6-((1-(3-fluoropyridin-2-yl)cyclobutyl)methylamino)pyridazin-3-yl)thiazol-5-yl)-N-methylacetamide



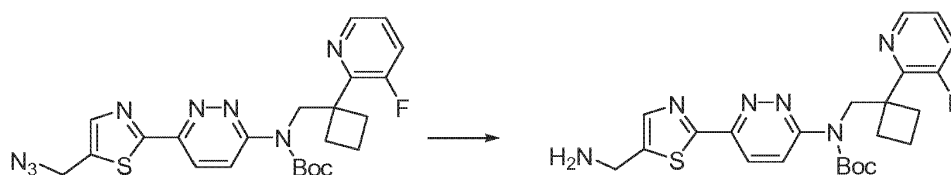
A solution of *t*-butyl 6-(5-(cyanomethyl)thiazol-2-yl)pyridazin-3-yl((1-(3-fluoropyridin-2-yl)cyclobutyl)methyl)carbamate (1 g, 2 mmol) in HCl (30 mL, conc) was heated to 105 °C in a microwave reactor and stirred for 15 min. The reaction was concentrated to give 900 mg (2.3 mmol) of a crude reddish solid. To this solid was added methylamine hydrochloride (183 mg, 2.7 mmol), HOBt (365 mg, 2.7 mmol), EDC (516 mg, 2.7 mmol), DMF (30 mL), and TEA (1.3 mL, 9 mmol). The reaction was stirred at rt overnight. The reaction was then poured into ethyl acetate (200 mL), washed with water

(3x100 mL), and the organic layer was separated, dried over Na₂SO₄, filtered, concentrated, and recrystallized from EtOAc to give 408 mg of 2-(2-(6-((1-(3-Fluoropyridin-2-yl)cyclobutyl)methylamino)pyridazin-3-yl)thiazol-5-yl)-N-methylacetamide as a white solid (M+H=413.3).

Example 25: Preparation of N-((2-(6-((1-(3-fluoropyridin-2-yl)cyclobutyl)methylamino)pyridazin-3-yl)thiazol-5-yl)methyl)-2-hydroxyacetamide

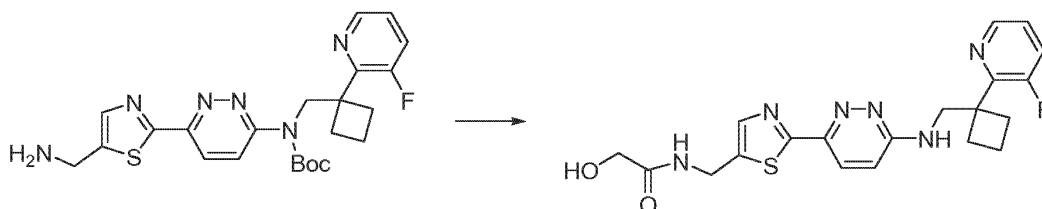


***t*-butyl 6-(5-(Azidomethyl)thiazol-2-yl)pyridazin-3-yl((1-(3-fluoropyridin-2-yl)cyclobutyl)methyl)carbamate.** To a stirring solution of *t*-butyl 6-(5-(chloromethyl)thiazol-2-yl)pyridazin-3-yl((1-(3-fluoropyridin-2-yl)cyclobutyl)methyl)carbamate (60.7 g, 124 mmol) in DMF (800 mL) was added sodium azide (22.2 g, 341 mmol) and DIPEA (31.1 mL, 171 mmol). The reaction was heated to 60 °C and stirred for 1 h. The reaction was poured into ethyl acetate (2000 mL), washed with water (3x400 mL), and the combined organic layers were separated, dried over Na₂SO₄, filtered, concentrated, and purified by silica gel chromatography (EtOAc/hexanes) to afford 20.0 g of *t*-butyl 6-(5-(azidomethyl)thiazol-2-yl)pyridazin-3-yl((1-(3-fluoropyridin-2-yl)cyclobutyl)methyl)carbamate as a yellow oil.



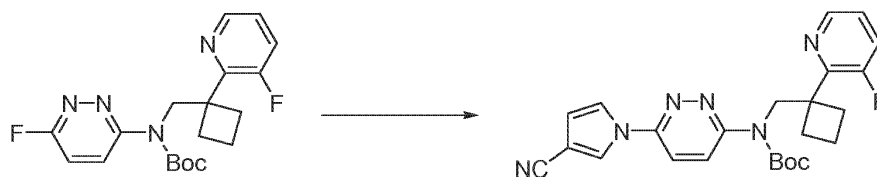
***t*-butyl 6-(5-(Aminomethyl)thiazol-2-yl)pyridazin-3-yl((1-(3-fluoropyridin-2-yl)cyclobutyl)methyl)carbamate.** Tin(II) chloride dihydrate (15.5 g, 80 mmol) was added to a solution of *t*-butyl 6-(5-(azidomethyl)thiazol-2-yl)pyridazin-3-yl((1-(3-fluoropyridin-2-yl)cyclobutyl)methyl)carbamate (20 g, 40 mmol) in methanol (400 mL) and the reaction was stirred at rt for 30 min. The reaction was poured into ethyl acetate (1000 mL), washed with water

(3x200 mL), and the combined organic layers were separated, dried over Na_2SO_4 , filtered, concentrated, and purified using silica gel column chromatography (9% MeOH/90% EtOAc/1% TEA) to give 35 g of *t*-butyl 6-(5-(aminomethyl)thiazol-2-yl)pyridazin-3-yl((1-(3-fluoropyridin-2-yl)cyclobutyl)methyl)carbamate as a yellow oil.

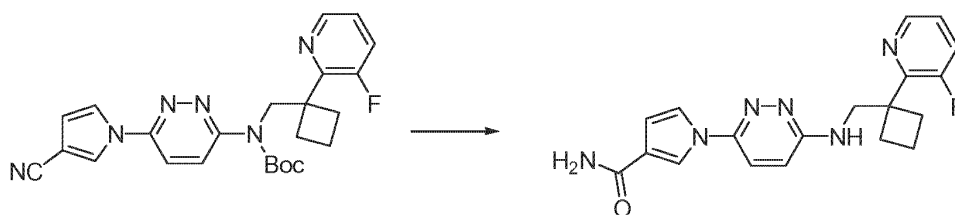


***N*-((2-(6-((1-(3-fluoropyridin-2-yl)cyclobutyl)methylamino)pyridazin-3-yl)thiazol-5-yl)methyl)-2-hydroxyacetamide.** *t*-butyl 6-(5-(aminomethyl)thiazol-2-yl)pyridazin-3-yl((1-(3-fluoropyridin-2-yl)cyclobutyl)methyl)carbamate (4.8 g, 10 mmol), glycolic acid (0.9 g, 12 mmol), HOBt (1.6 g, 12 mmol), EDC (2.3 g, 12 mmol), DMF (50 mL), and TEA (5.9 mL) were added to a 250 mL round bottom flask and the reaction was heated to 60 °C and stirred for 1 h. The reaction was poured into ethyl acetate (400 mL), washed with water (3x100 mL), and the combined organic layers were separated, dried over Na_2SO_4 , filtered, concentrated, and purified by silica gel chromatography (EtOAc/hexanes) to afford 3.9 g of *t*-butyl (1-(3-fluoropyridin-2-yl)cyclobutyl)methyl(6-(5-((2-hydroxyacetamido)methyl)thiazol-2-yl)pyridazin-3-yl)carbamate as a white solid. This compound was dissolved in 30% TFA/ CH_2Cl_2 (30 mL) and stirred for 1 h. The reaction was concentrated, dissolved in EtOAc (200 mL), washed with potassium carbonate (3x30 mL), concentrated, and then recrystallized with ethanol to give a white solid that was further purified with reverse phase chromatography to give 305 mg of *N*-((2-(6-((1-(3-fluoropyridin-2-yl)cyclobutyl)methylamino)pyridazin-3-yl)thiazol-5-yl)methyl)-2-hydroxyacetamide as a white solid ($M+H=429.1$).

Example 26: Preparation of 1-(6-((1-(3-fluoropyridin-2-yl)cyclobutyl)methylamino)pyridazin-3-yl)-1H-pyrrole-3-carboxamide



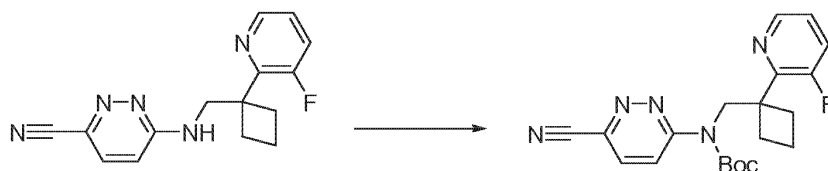
***t*-butyl 6-(3-Cyano-1H-pyrrol-1-yl)pyridazin-3-yl((1-(3-fluoropyridin-2-yl)cyclobutyl)methyl)carbamate.** To a stirring solution of *t*-butyl 6-fluoropyridazin-3-yl((1-(3-fluoropyridin-2-yl)cyclobutyl)methyl)carbamate (200 mg, 551 μ mol) in DMF (2 mL) was added 3-cyanopyrrole (61 mg, 661 μ mol) and potassium carbonate (152 mg, 1.1 mmol). The reaction was heated to 110 °C and stirred for 30 min. The reaction was then poured into ethyl acetate (100 mL), washed with water (3x25 mL), and the organic layer was separated, dried over Na₂SO₄, filtered, concentrated, and purified by silica gel chromatography (EtOAc/hexanes) to afford 130 mg of *t*-butyl 6-(3-cyano-1H-pyrrol-1-yl)pyridazin-3-yl((1-(3-fluoropyridin-2-yl)cyclobutyl)methyl)carbamate as a pale yellow solid.



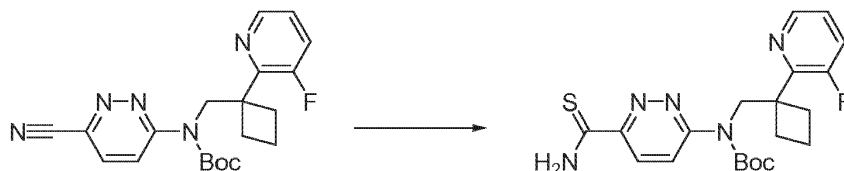
1-(6-((1-(3-Fluoropyridin-2-yl)cyclobutyl)methylamino)pyridazin-3-yl)-1H-pyrrole-3-carboxamide. *t*-butyl 6-(3-cyano-1H-pyrrol-1-yl)pyridazin-3-yl((1-(3-fluoropyridin-2-yl)cyclobutyl)methyl)carbamate (120 mg, 267 μ mol), potassium carbonate (147 mg, 1.1 mmol), and DMSO (3 mL) were combined in a vial and cooled to 0 °C. Hydrogen peroxide (700 μ L) was added dropwise, and the reaction was warmed to rt and stirred for 1 h. The reaction was then poured into ethyl acetate (50 mL), washed with water (3x20 mL), and the organic layer was separated, dried over Na₂SO₄, filtered, and concentrated. The crude solid was dissolved in 50% TFA/CH₂Cl₂ (2 mL) and stirred for 30 min. The reaction was then concentrated and purified using reverse phase chromatography to give 29 mg of 1-(6-((1-(3-fluoropyridin-2-yl)cyclobutyl)methylamino)pyridazin-3-yl)-1H-pyrrole-3-carboxamide as a tan

solid (M+H=367.1).

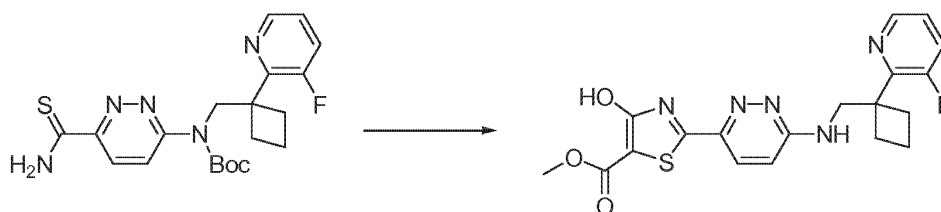
Example 27: Preparation of 2-(6-((1-(3-fluoropyridin-2-yl)cyclobutyl)methylamino)pyridazin-3-yl)-4-hydroxy-2,5-dihydrothiazole-5-carboxamide



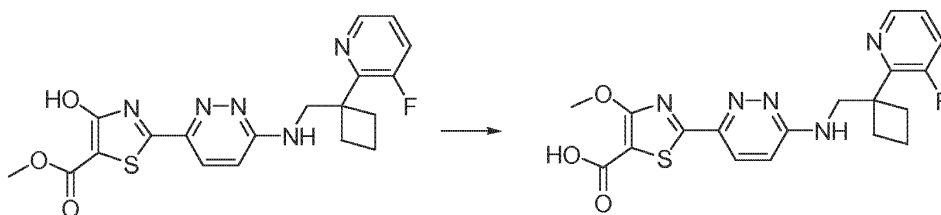
***t*-butyl 6-Cyanopyridazin-3-yl((1-(3-fluoropyridin-2-yl)cyclobutyl)methyl)carbamate.** To a solution of 6-((1-(3-fluoropyridin-2-yl)cyclobutyl)methylamino)pyridazine-3-carbonitrile (3.3 g, 4.7 mmol) in THF (30 mL) was added di-*t*-butyl dicarbonate (2.8 g, 13 mmol), and DMAP (0.5 g, 4.3 mmol). The reaction mixture was refluxed for 2 h. The reaction was concentrated and then poured into ethyl acetate (150 mL) and washed with 0.1 M HCl (50 mL, aq) and brine (50 mL). The organic layer was separated, dried over Na₂SO₄, filtered, and concentrated to give a crude oil that was purified by silica gel column chromatography (EtOAc/hexanes) to afford 3.9 g of *t*-butyl 6-cyanopyridazin-3-yl((1-(3-fluoropyridin-2-yl)cyclobutyl)methyl)carbamate as a white solid.



***t*-butyl 6-Carbamothioylpyridazin-3-yl((1-(3-fluoropyridin-2-yl)cyclobutyl)methyl)carbamate.** NMP (40 mL) and DIPEA (10 mL) were added to *t*-butyl 6-cyanopyridazin-3-yl((1-(3-fluoropyridin-2-yl)cyclobutyl)methyl)carbamate (3.9 g, 10 mmol), and hydrogen sulfide was bubbled through the reaction mixture for 2 h. The reaction was diluted with water, and the resultant yellow solid was filtered and dried under vacuum to give 2.1 g of *t*-butyl 6-carbamothioylpyridazin-3-yl((1-(3-fluoropyridin-2-yl)cyclobutyl)methyl)carbamate as a yellow solid.

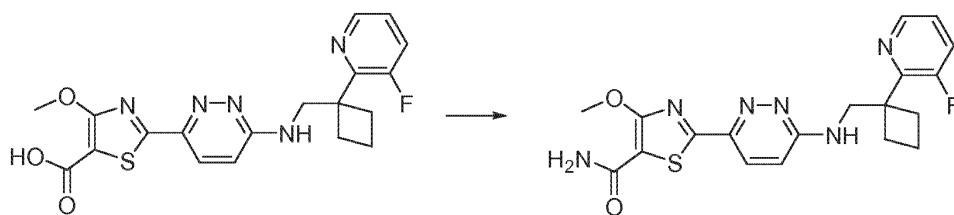


Ethyl 2-(6-((*t*-butoxycarbonyl((1-(3-fluoropyridin-2-yl)cyclobutyl)methyl)amino)pyridazin-3-yl)-4-hydroxy-2,5-dihydrothiazole-5-carboxylate. *t*-Butyl 6-carbamothioylpyridazin-3-yl((1-(3-fluoropyridin-2-yl)cyclobutyl)methyl)carbamate (1.0 g, 2.4 mmol), diethylbromomalonate (2 mL, 12 mmol), and toluene were added to a round bottom flask, heated to 90 °C, and stirred for 40 min. The reaction was concentrated and purified using reverse phase chromatography to yield 219 mg of ethyl 2-(6-((*t*-butoxycarbonyl((1-(3-fluoropyridin-2-yl)cyclobutyl)methyl)amino)pyridazin-3-yl)-4-hydroxy-2,5-dihydrothiazole-5-carboxylate as an off-white solid.



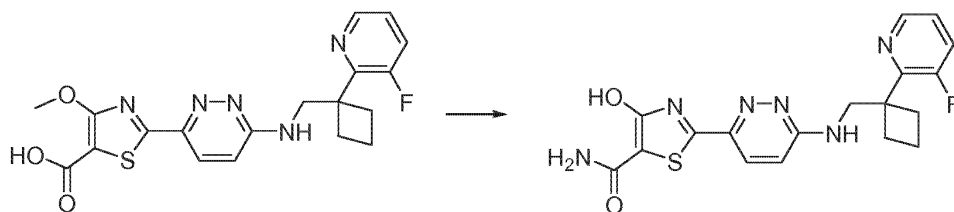
2-(6-((*t*-Butoxycarbonyl((1-(3-fluoropyridin-2-yl)cyclobutyl)methyl)amino)pyridazin-3-yl)-4-methoxy-2,5-dihydrothiazole-5-carboxylic acid. To a stirring solution of ethyl 2-(6-((*t*-butoxycarbonyl((1-(3-fluoropyridin-2-yl)cyclobutyl)methyl)amino)pyridazin-3-yl)-4-hydroxy-2,5-dihydrothiazole-5-carboxylate (350 mg, 0.7 mmol) in DMF (4 mL) was added methyl iodide (200 μ L, 3.3 mmol) and sodium hydride (60% dispersion in mineral oil, 40 mg, 1 mmol). The reaction was stirred at rt for 1 h and at 40 °C for 45 min. The reaction was then concentrated and quenched with water (5 mL), poured into ethyl acetate (150 mL), and washed with 0.1 M HCl (50 mL, aq) and brine (50 mL). The organic layer was separated, dried over Na₂SO₄, filtered, concentrated and purified by silica gel column chromatography (EtOAc/hexanes) to afford 205 mg of ethyl 2-(6-((*t*-butoxycarbonyl((1-(3-fluoropyridin-2-yl)cyclobutyl)methyl)amino)pyridazin-3-

yl)-4-methoxy-2,5-dihydrothiazole-5-carboxylate. This compound was dissolved in methanol (4 mL) and 1M KOH (aq, 2 mL). The reaction mixture was heated to 75 °C and stirred for 45 min. The reaction was cooled and the pH was adjusted to 4 using 1M HCl. The reaction was then poured into ethyl acetate (50 mL), washed with brine (15 mL), dried over Na₂SO₄, filtered, and concentrated to give 175 mg of 2-(6-(*t*-butoxycarbonyl((1-(3-fluoropyridin-2-yl)cyclobutyl)methyl)amino)pyridazin-3-yl)-4-methoxy-2,5-dihydrothiazole-5-carboxylic acid as a white foam.



***t*-butyl 6-(5-Carbamoyl-4-methoxy-2,5-dihydrothiazol-2-yl)pyridazin-3-yl((1-(3-fluoropyridin-2-yl)cyclobutyl)methyl)carbamate.**

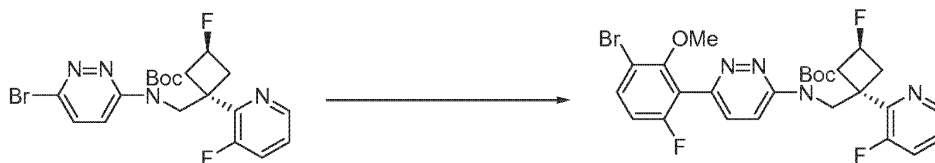
To a 50 dram vial was added 2-(6-(*t*-butoxycarbonyl((1-(3-fluoropyridin-2-yl)cyclobutyl)methyl)amino)pyridazin-3-yl)-4-methoxy-2,5-dihydrothiazole-5-carboxylic acid (175 mg, 0.34 mmol), HATU (194 mg, 0.51 mmol), HOAt (70 mg, 0.51 mmol), DIPEA (296 μ L, 1.7 mmol), NMP (2 mL), and ammonium chloride (180 mg, 3.4 mmol). The reaction was stirred overnight at rt. The reaction was then poured into ethyl acetate (50 mL), washed with aqueous sodium bicarbonate, and brine (50 mL). The organic layer was separated, dried over Na₂SO₄, filtered, concentrated and purified by silica gel column chromatography (EtOAc/hexanes) to afford 120 mg of *t*-butyl 6-(5-carbamoyl-4-methoxy-2,5-dihydrothiazol-2-yl)pyridazin-3-yl((1-(3-fluoropyridin-2-yl)cyclobutyl)methyl)carbamate.



2-(6-((1-(3-Fluoropyridin-2-yl)cyclobutyl)methylamino)pyridazin-3-yl)-4-hydroxy-2,5-dihydrothiazole-5-carboxamide. To a stirring mixture of

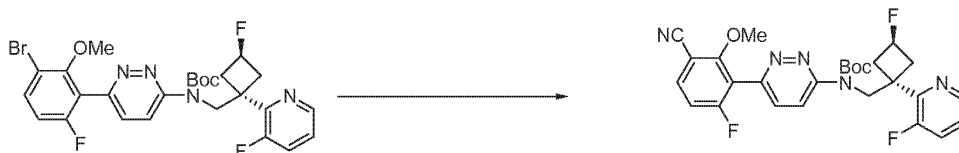
t-butyl 6-(5-carbamoyl-4-methoxy-2,5-dihydrothiazol-2-yl)pyridazin-3-yl(((1-(3-fluoropyridin-2-yl)cyclobutyl)methyl)carbamate (60 mg, 0.12 μ mol) in CH_2Cl_2 (2 mL) was added BBr_3 (140 μ L, 1.2 mmol). The reaction was stirred at rt for 2 h and then at 60 $^\circ\text{C}$ for 15 min. The reaction was cooled to rt and carefully diluted with methanol (2 mL). The reaction was concentrated, diluted with ethyl acetate (20 mL), and saturated sodium bicarbonate (10 mL) was added. The mixture was agitated and then filtered. The subsequent crude solid was then purified using reverse phase chromatography to give 15 mg of 2-(6-(((1-(3-fluoropyridin-2-yl)cyclobutyl)methylamino)pyridazin-3-yl)-4-hydroxy-2,5-dihydrothiazole-5-carboxamide as a yellow solid ($M+H=401.3$)

Example 28: Preparation of 4-fluoro-3-(6-(((*trans*)-3-fluoro-1-(3-fluoropyridin-2-yl)cyclobutyl)methylamino)pyridazin-3-yl)-2-hydroxybenzamide



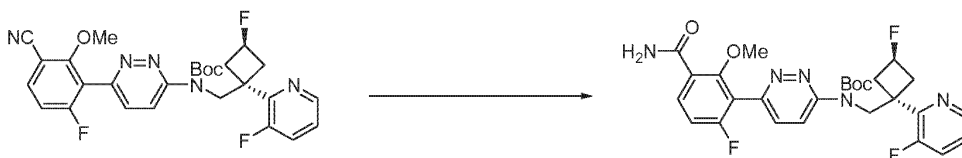
***t*-butyl 6-(3-Bromo-6-fluoro-2-methoxyphenyl)pyridazin-3-yl(((*trans*)-3-fluoro-1-(3-fluoropyridin-2-yl)cyclobutyl)methyl)carbamate.**

t-Butyl 6-Bromopyridazin-3-yl(((*trans*)-3-fluoro-1-(3-fluoropyridin-2-yl)cyclobutyl)methyl)carbamate (3.0 g, 6.61 mmol), 3-bromo-6-fluoro-2-methoxyphenylboronic acid (1.64 g, 6.61 mmol), (dppf) PdCl_2 (0.48 g, 0.66 mmol), nitrogen-sparged dioxane (13.2 mL) and aq. 2 N K_2CO_3 (0.6 mL) were combined and heated in a microwave reactor at 125 $^\circ\text{C}$. The reaction mixture was diluted with EtOAc and washed with satd. aq. NaHCO_3 and brine. The organic layer was dried over sodium sulfate, filtered, and concentrated. Silica gel chromatography afforded the title compound as a yellow solid (1.4 g, 37%), (m/z [$M+H$] = 579.1).



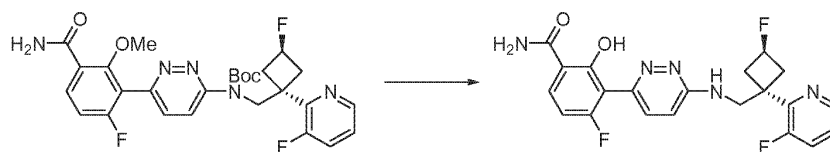
***t*-butyl 6-(3-cyano-6-fluoro-2-methoxyphenyl)pyridazin-3-yl(((*trans*)-3-fluoro-1-(3-fluoropyridin-2-yl)cyclobutyl)methyl)carbamate.**

t-Butyl 6-(3-Bromo-6-fluoro-2-methoxyphenyl)pyridazin-3-yl(((*trans*)-3-fluoro-1-(3-fluoropyridin-2-yl)cyclobutyl)methyl)carbamate (1.4 g, 3.0 mmol), zinc cyanide (0.42 g, 3.6 mmol), Pd(PPh₃)₄ (1.0 g, 0.9 mmol), DMF (3 mL) were combined and heated to 100 °C. The reaction mixture was diluted with EtOAc and washed with satd. aq. NaHCO₃ and brine. The organic layer was dried over sodium sulfate, filtered, and concentrated. Silica gel chromatography afforded the title compound as a yellow solid (1.0 g, 63%), (m/z [M+H] = 526.2).



***t*-butyl 6-(3-carbamoyl-6-fluoro-2-methoxyphenyl)pyridazin-3-yl(((*trans*)-3-fluoro-1-(3-fluoropyridin-2-yl)cyclobutyl)methyl)carbamate.**

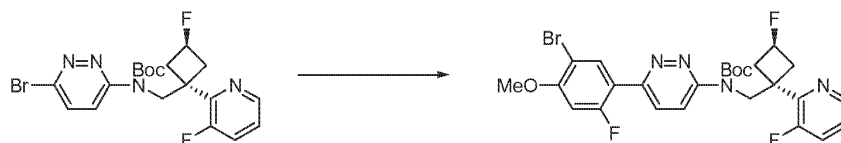
t-Butyl 6-(3-cyano-6-fluoro-2-methoxyphenyl)pyridazin-3-yl(((*trans*)-3-fluoro-1-(3-fluoropyridin-2-yl)cyclobutyl)methyl)carbamate (1.0 g, 1.9 mmol), K₂CO₃ (0.8 g, 5.8 mmol), and DMSO (10 mL) were combined in a round bottom flask, cooled to 0 °C, and H₂O₂ (2 mL of 35% solution) was added dropwise. The reaction mixture was diluted with EtOAc and washed with satd. aq. NaHCO₃ and brine. The organic layer was dried over sodium sulfate, filtered, and concentrated. Silica gel chromatography afforded the title compound as a white solid (0.32 g, 33%), (m/z [M+H] = 545.1).



4-Fluoro-3-(6-(((*trans*)-3-fluoro-1-(3-fluoropyridin-2-yl)cyclobutyl)methylamino)pyridazin-3-yl)-2-hydroxybenzamide. *t*-Butyl 6-(3-carbamoyl-6-fluoro-2-methoxyphenyl)pyridazin-3-yl(((*trans*)-3-fluoro-1-(3-fluoropyridin-2-yl)cyclobutyl)methyl)carbamate (0.32 g, 0.59 mmol), lithium iodide (0.71 g, 5.34 mmol), and pyridine (5 mL) were combined in a microwave reactor and heated to 125 °C. The reaction mixture was diluted with EtOAc and washed with satd. aq. NaHCO₃ and brine. The organic layer

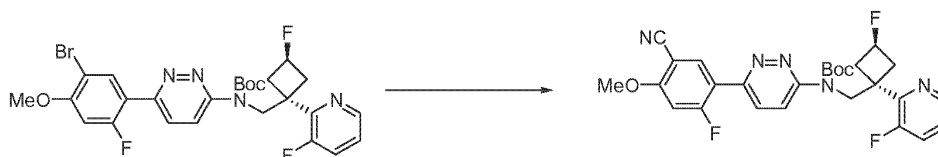
was dried over sodium sulfate, filtered, and concentrated. Reverse phase chromatography provided 4-fluoro-3-(6-(((*E*)-3-fluoro-1-(3-fluoropyridin-2-yl)cyclobutyl)methylamino)pyridazin-3-yl)-2-hydroxybenzamide as a white solid (0.024 g, 10%), (m/z [M+H] = 430.1).

Example 29: Preparation of 4-fluoro-5-(6-(((*trans*)-3-fluoro-1-(3-fluoropyridin-2-yl)cyclobutyl)methylamino)pyridazin-3-yl)-2-hydroxybenzamide



***t*-Butyl 6-(5-bromo-2-fluoro-4-methoxyphenyl)pyridazin-3-yl(((*trans*)-3-fluoro-1-(3-fluoropyridin-2-yl)cyclobutyl)methyl)carbamate.**

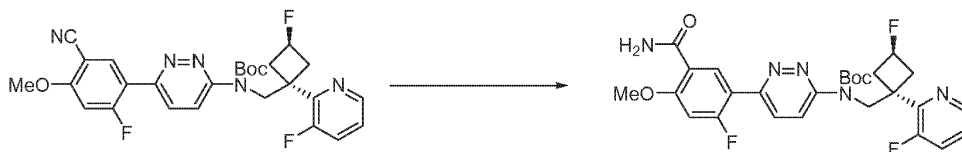
t-Butyl 6-bromopyridazin-3-yl(((*trans*)-3-fluoro-1-(3-fluoropyridin-2-yl)cyclobutyl)methyl)carbamate (3.0 g, 6.61 mmol), 2-(5-bromo-2-fluoro-4-methoxyphenyl)-4,4,5,5-tetramethyl-1,3,2-dioxaborolane (2.2 g, 6.61 mmol), (dppf)PdCl₂ (0.48 g, 0.66 mmol), nitrogen-sparged dioxane (13.2 mL) and aq. 2 N K₂CO₃ (0.6 mL) were combined and heated to 90 °C. The reaction mixture was diluted with EtOAc and washed with satd. aq. NaHCO₃ and brine. The organic layer was dried over sodium sulfate, filtered, and concentrated. Silica gel chromatography provided a light yellow solid (1.7 g, 44%), (m/z [M+H] = 579.1).



***t*-Butyl 6-(5-cyano-2-fluoro-4-methoxyphenyl)pyridazin-3-yl(((*trans*)-3-fluoro-1-(3-fluoropyridin-2-yl)cyclobutyl)methyl)carbamate.**

t-Butyl 6-(5-bromo-2-fluoro-4-methoxyphenyl)pyridazin-3-yl(((*trans*)-3-fluoro-1-(3-fluoropyridin-2-yl)cyclobutyl)methyl)carbamate (1.7 g, 3.6 mmol), zinc cyanide (0.51 g, 4.3 mmol), Pd(PPh₃)₄ (1.26 g, 1.0 mmol), DMF (5 mL) were combined and heated to 100 °C. The reaction mixture was diluted with EtOAc and washed with satd. aq. NaHCO₃ and brine. The organic layer was dried over sodium sulfate, filtered, and concentrated. Silica gel chromatography

provided a yellow solid (1.1 g, 66%), (m/z $[M+H] = 526.2$).



***t*-Butyl 6-(5-carbamoyl-2-fluoro-4-methoxyphenyl)pyridazin-3-yl(((*trans*)-3-fluoro-1-(3-fluoropyridin-2-yl)cyclobutyl)methyl)carbamate.**

t-Butyl 6-(5-cyano-2-fluoro-4-methoxyphenyl)pyridazin-3-yl(((*trans*)-3-fluoro-1-(3-fluoropyridin-2-yl)cyclobutyl)methyl)carbamate (0.21 g, 0.4 mmol), K_2CO_3 (0.22 g, 1.6 mmol), and DMSO (4 mL) were combined in a round bottom flask, cooled to 0 °C, and H_2O_2 (1.3 mL of 35%) was added dropwise. The reaction mixture was diluted with EtOAc and washed with satd. aq. $NaHCO_3$ and brine. The organic layer was dried over sodium sulfate, filtered, and concentrated. Silica gel chromatography provided a white solid (0.10 g, 46%), (m/z $[M+H] = 545.1$).



4-Fluoro-5-(6-(((*trans*)-3-fluoro-1-(3-fluoropyridin-2-yl)cyclobutyl)methylamino)pyridazin-3-yl)-2-hydroxybenzamide. *t*-Butyl 6-(5-carbamoyl-2-fluoro-4-methoxyphenyl)pyridazin-3-yl(((*trans*)-3-fluoro-1-(3-fluoropyridin-2-yl)cyclobutyl)methyl)carbamate (0.10 g, 0.18 mmol), lithium iodide (0.22 g, 1.65 mmol) and pyridine (3 mL) were combined in a microwave reactor and heated to 125 °C. The reaction mixture was diluted with EtOAc and washed with satd. aq. $NaHCO_3$ and brine. The organic layer was dried over sodium sulfate, filtered, and concentrated. Reverse phase chromatography provided the title compound as a white solid (0.023 g, 30%), (m/z $[M+H] = 430.1$).

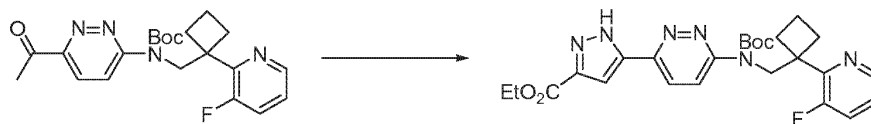
Example 30: Preparation of 5-(6-((1-(3-fluoropyridin-2-yl)cyclobutyl)methylamino)pyridazin-3-yl)-1H-pyrazole-3-carboxamide



***t*-Butyl 6-(1-ethoxyvinyl)pyridazin-3-yl((1-(3-fluoropyridin-2-yl)cyclobutyl)methyl)carbamate.** *t*-Butyl 6-chloropyridazin-3-yl((1-(3-fluoropyridin-2-yl)cyclobutyl)methyl)carbamate (5.1 g, 13.0 mmol), tributyl(1-ethoxyvinyl)stannane (6.1 g, 16.9 mmol), (PPh₃)₂PdCl₂ (2.3 g, 3.2 mmol), and nitrogen-sparged dioxane (18 mL) were combined and heated in a microwave reactor at 150 °C. The reaction mixture was diluted with EtOAc and washed with satd. aq. NaHCO₃ and brine. The organic layer was dried over sodium sulfate, filtered, and concentrated. Silica gel chromatography provided a light yellow solid (3.9 g, 71%), (m/z [M+H] = 429.2).

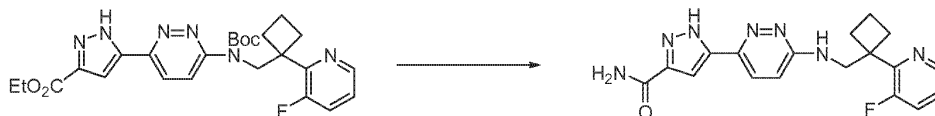


***t*-Butyl 6-acetylpyridazin-3-yl((1-(3-fluoropyridin-2-yl)cyclobutyl)methyl)carbamate.** *t*-Butyl 6-(1-ethoxyvinyl)pyridazin-3-yl((1-(3-fluoropyridin-2-yl)cyclobutyl)methyl)carbamate (1.0 g, 2.3 mmol), EtOH (75 mL), and 1 N HCl (15 mL) were combined at 0 °C, warmed to 25 °C, and stirred for 1 h. The reaction mixture was concentrated and silica gel chromatography provided a colorless oil (0.6 g, 64%), (m/z [M+H] = 401.1).



Ethyl 5-(6-(tert-butoxycarbonyl((1-(3-fluoropyridin-2-yl)cyclobutyl)methyl)amino)pyridazin-3-yl)-1H-pyrazole-3-carboxylate. *t*-Butyl 6-acetylpyridazin-3-yl((1-(3-fluoropyridin-2-yl)cyclobutyl)methyl)carbamate (2.5 g, 6.2 mmol) in THF (150 mL) was treated with NaOEt (3.44 g, 10.6 mmol, 21% in EtOH). The resulting mixture was then treated with diethyl oxalate (1.7 mL, 12.5 mmol), heated to 45 °C, and stirred for 4 h. The reaction mixture was added to 1 N HCl, extracted with EtOAc, and washed with satd. aq. NaHCO₃ and brine. The organic layer was dried over sodium sulfate, filtered, and concentrated. A portion of the resultant oil was dissolved in AcOH and hydrazine (0.41 g, 13.2 mmol) was added and stirred at 80 °C. Concentration afforded a yellow oil which was purified by reverse-phase chromatography to give solid (0.285 g, 62%), (m/z

[M+H] = 497.2).

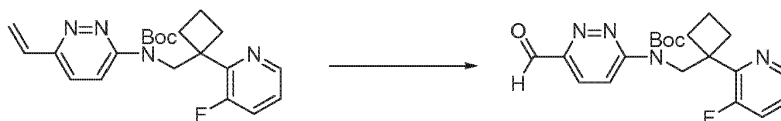


5-(6-((1-(3-Fluoropyridin-2-yl)cyclobutyl)methylamino)pyridazin-3-yl)-1H-pyrazole-3-carboxamide. Ethyl 5-(6-((*t*-butoxycarbonyl((1-(3-fluoropyridin-2-yl)cyclobutyl)methyl)amino)pyridazin-3-yl)-1H-pyrazole-3-carboxylate (0.28 g, 0.56 mmol) and 7N ammonia in MeOH were combined in a microwave reactor and heated to 110 °C for 1 h. The reaction mixture was then concentrated, diluted with EtOAc, and washed with satd. aq. NaHCO₃ and brine. The organic layer was dried over sodium sulfate, filtered, and concentrated. The resultant oil was diluted in 10 mL of DCM and TFA (15 mL) was added. The reaction mixture was then concentrated and purified by reverse phase chromatography to give the title compound as a white solid (18 mg, 12%), (*m/z* [M+H] = 368.1).

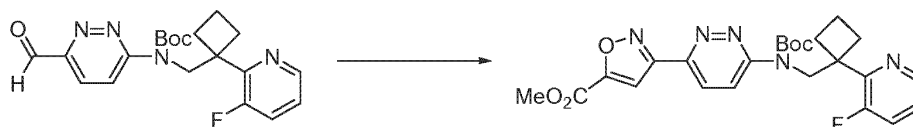
Example 31: Preparation of 3-(6-((1-(3-fluoropyridin-2-yl)cyclobutyl)methylamino)pyridazin-3-yl)isoxazole-5-carboxamide



***t*-Butyl (1-(3-fluoropyridin-2-yl)cyclobutyl)methyl(6-vinylpyridazin-3-yl)carbamate.** *t*-Butyl 6-chloropyridazin-3-yl((1-(3-fluoropyridin-2-yl)cyclobutyl)methyl)carbamate (2.5 g, 6.36 mmol), triethenylboroxin pyridine complex (1.0 g, 4.13 mmol), Pd(PPh₃)₄ (0.3 g, 0.25 mmol), nitrogen-sparged dioxane (13.2 mL) and aq. 2 N K₂CO₃ (0.9 mL) were combined and heated to 110 °C for 25 min. The reaction mixture was diluted with EtOAc and washed with satd. aq. NaHCO₃ and brine. The organic layer was dried over sodium sulfate, filtered, and concentrated. Silica gel chromatography provided a light yellow oil (2.1 g, 86%), (*m/z* [M+H] = 385.2).



***t*-Butyl (1-(3-fluoropyridin-2-yl)cyclobutyl)methyl(6-formylpyridazin-3-yl)carbamate.** *t*-Butyl (1-(3-fluoropyridin-2-yl)cyclobutyl)methyl(6-vinylpyridazin-3-yl)carbamate (3.4 g, 8.84 mmol) was added as a dioxane (100 mL) solution to a mixture of sodium periodate (10.8 g, 50.5 mmol) and 4% osmium tetroxide solution (6.5 mL) in H₂O (30 mL) at 0 °C. The reaction was stirred for 2 h. The reaction mixture was filtered through a pad of celite and washed with EtOAc. The organic layer was washed with satd. aq. NaHCO₃, brine and dried over sodium sulfate, filtered, and concentrated. Silica gel chromatography provided a colorless oil (1.4 g, 41%), (*m/z* [M+H] = 387.2).

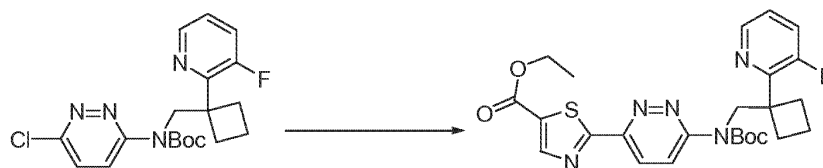


Methyl-3-(6-(*tert*-butoxycarbonyl((1-(3-fluoropyridin-2-yl)cyclobutyl)methyl)amino)pyridazin-3-yl)isoxazole-5-carboxylate. To *t*-butyl (1-(3-fluoropyridin-2-yl)cyclobutyl)methyl(6-formylpyridazin-3-yl)carbamate (1.4 g, 3.6 mmol) in ethanol (10 mL) and water (2 mL) was added hydroxylamine hydrochloride (0.27 g, 3.8 mmol) followed by sodium acetate (0.32 g, 3.8 mmol) and stirred at 24 °C for 30 min. The crude reaction mixture was concentrated and diluted with EtOAc. The organic layer was washed with satd. aq. NaHCO₃ and brine, then dried over sodium sulfate, filtered, and concentrated. The crude mixture was then diluted in THF (2 mL) and pyridine (57 mg, 0.72 mmol) then treated with NCS (0.58 g, 4.35 mmol) and heated to 40 °C for 1.5 h. The crude mixture was then treated with methyl propiolate (0.30 g, 3.56 mmol) and TEA (0.36, 3.56 mmol), and the reaction was stirred for 45 min. The reaction mixture was concentrated and diluted with EtOAc, and then washed with satd. aq. NaHCO₃ and brine. The organic layer was dried over sodium sulfate, filtered, concentrated, and purified by reverse phase chromatography to give a white solid (0.53 g, 31%).

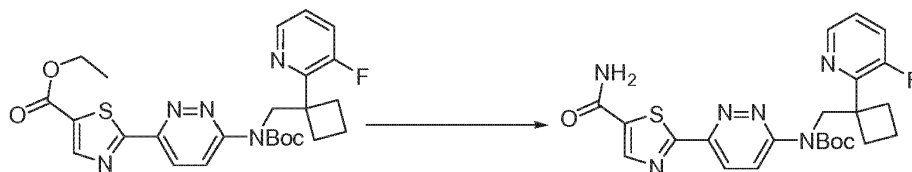


3-(6-((1-(3-Fluoropyridin-2-yl)cyclobutyl)methylamino)pyridazin-3-yl)isoxazole-5-carboxamide. Methyl 3-(6-(tert-butoxycarbonyl((1-(3-fluoropyridin-2-yl)cyclobutyl)methyl)amino)pyridazin-3-yl)isoxazole-5-carboxylate (0.53 g, 1.1 mmol), methanol (5 mL) and concentrated ammonium hydroxide (8 mL) were combined in a microwave reactor and heated to 100 °C for 60 min. The reaction mixture was then concentrated and diluted with EtOAc and washed with satd. aq. NaHCO₃ and brine. The organic layer was dried over sodium sulfate, filtered, and concentrated. Resultant oil was diluted in 10 mL of DCM and TFA (6 mL) was added and the reaction was stirred for 35 min. The reaction mixture was then concentrated and purified by reverse phase chromatography to give the title compound as a white solid (144 mg, 36%), (*m/z* [M+H] = 369.1).

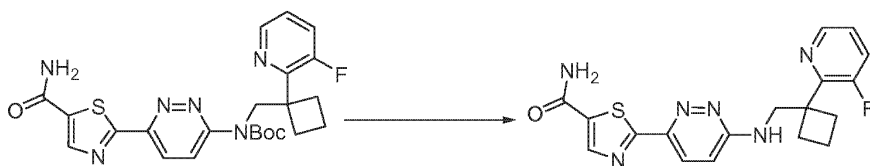
Example 32: Preparation of 2-(6-((1-(3-fluoropyridin-2-yl)cyclobutyl)methylamino)pyridazin-3-yl)thiazole-5-carboxamide



Ethyl 2-(6-(tert-butoxycarbonyl((1-(3-fluoropyridin-2-yl)cyclobutyl)methyl)amino)pyridazin-3-yl)thiazole-5-carboxylate. tert-butyl 6-chloropyridazin-3-yl((1-(3-fluoropyridin-2-yl)cyclobutyl)methyl)carbamate (500 mg, 1.27 mmol), ethyl thiazole-5-carboxylate (300 mg, 1.91 mmol), Pd(OAc)₂ (86 mg, 0.13 mmol), JohnPhos (92 mg, 0.26 mmol) and Cs₂CO₃ (827 mg, 2.54 mmol) in toluene (10 mL) were combined and heated in a microwave reactor for 30 min at 145 °C. The reaction mixture was filtered through a celite plug and the filtrate was concentrated. The resulting residue was purified on silica gel using a mixture of ethyl acetate and hexanes to provide the title compound as yellow oil (162 mg, 82% pure, 21%), LRMS (M+H⁺) *m/z* 514.3.

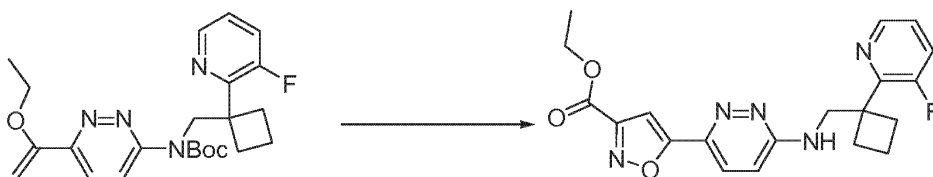


***t*-Butyl 6-(5-carbamoylthiazol-2-yl)pyridazin-3-yl((1-(3-fluoropyridin-2-yl)cyclobutyl)methyl)carbamate.** To a solution of ethyl 2-(6-(*tert*-butoxycarbonyl((1-(3-fluoropyridin-2-yl)cyclobutyl)methyl)amino)pyridazin-3-yl)thiazole-5-carboxylate (162 mg, 0.32 mmol) in MeOH (8 mL) was purged with NH₃ gas for 5 min. The reaction mixture was sealed and heated in a microwave reactor for 30 min at 120 °C. The reaction mixture was concentrated and used in next step without purification, LRMS (M+H⁺) *m/z* 484.2.



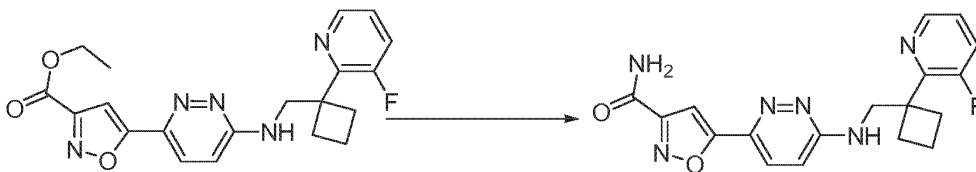
2-(6-((1-(3-Fluoropyridin-2-yl)cyclobutyl)methylamino)pyridazin-3-yl)thiazole-5-carboxamide. To a crude mixture of *t*-butyl 6-(5-carbamoylthiazol-2-yl)pyridazin-3-yl((1-(3-fluoropyridin-2-yl)cyclobutyl)methyl)carbamate (141 mg, crude) in DCM (6 mL) was added TFA (2 mL) at rt. The reaction mixture was further stirred at rt for 2 hr followed by concentration to dryness. The crude mixture was purified on RP-HPLC using a mixture of acetonitrile and H₂O to provide the title compound as a pale yellow solid (98.5 mg, 99% for 2 steps), LRMS (M+H⁺) *m/z* 385.2.

Example 33: Preparation of 5-(6-((1-(3-fluoropyridin-2-yl)cyclobutyl)methylamino)pyridazin-3-yl)isoxazole-3-carboxamide



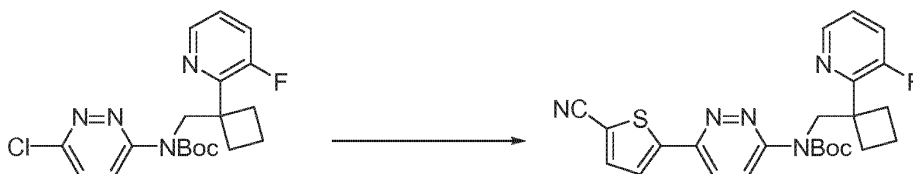
Ethyl 5-(6-((1-(3-fluoropyridin-2-yl)cyclobutyl)methylamino)pyridazin-3-yl)isoxazole-3-carboxylate. To *t*-butyl 6-(1-ethoxyvinyl)pyridazin-3-yl((1-(3-fluoropyridin-2-yl)cyclobutyl)methyl)carbamate (439 mg, 1.02 mmol) in THF (5.0 mL) was added (*E*)-ethyl 2-chloro-2-(hydroxyimino)acetate (465 mg, 3.06 mmol) and TEA (1.4 mL, 10.2 mmol). The reaction mixture was stirred at rt for 30 min followed by addition of TFA (5 mL) and then heated to reflux overnight. The

mixture was then concentrated and purified by reverse phase chromatography to give 415 mg of the title compound as a colorless oil, LRMS ($M+H^+$) m/z 398.3.



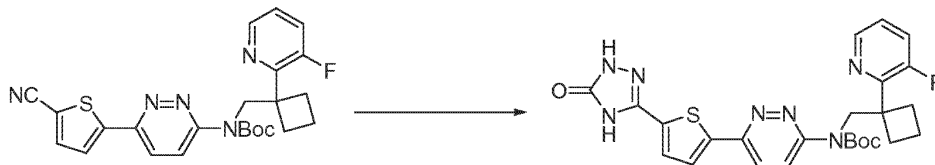
5-(6-((1-(3-Fluoropyridin-2-yl)cyclobutyl)methylamino)pyridazin-3-yl)isoxazole-3-carboxamide. To a solution of ethyl 5-(6-((1-(3-fluoropyridin-2-yl)cyclobutyl)methylamino)pyridazin-3-yl)isoxazole-3-carboxylate (200 mg, 0.40 mmol) in THF/MeOH mixture (12 mL, 5:1) was added LiOH (1 M, 1.2 mL) at rt. The reaction mixture was stirred overnight and concentrated. To this crude mixture was added NH₄Cl (60 mg, 1.2 mmol), HBTU (246 mg, 0.65 mmol), DIEA (132 μ L, 0.8 mmol), and DMF (5.0 mL). The mixture was stirred at rt overnight, filtered, and purified by reverse phase chromatography to provide the title compound as a white solid (23.2 mg, 16%), LRMS ($M+H^+$) m/z 369.2.

Example 34: Preparation of 5-(5-(6-((1-(3-Fluoropyridin-2-yl)cyclobutyl)methylamino)pyridazin-3-yl)thiophen-2-yl)-2H-1,2,4-triazol-3(4H)-one

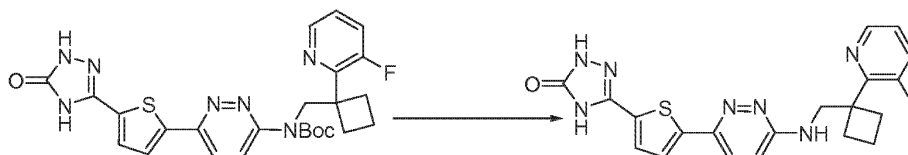


***t*-Butyl 6-(5-cyanothiophen-2-yl)pyridazin-3-yl((1-(3-fluoropyridin-2-yl)cyclobutyl)methyl)carbamate.** *t*-Butyl 6-chloropyridazin-3-yl((1-(3-fluoropyridin-2-yl)cyclobutyl)methyl)carbamate (900 mg, 2.29 mmol, 1 equiv), 5-cyanothiophen-2-ylboronic acid (390 mg, 2.52 mmol, 1.1 equiv), (dppf)PdCl₂ (164 mg, 0.23 mmol, 0.1 equiv), nitrogen-sparged dioxane (6.0 mL) and aq. 2 N K₂CO₃ (2.3 mL) were combined and heated in a microwave reactor for 30 min at 140 °C. The reaction mixture was filtered through a Celite plug and the filtrate was concentrated. The resulting residue was purified on silica gel using a mixture of ethyl acetate and hexanes to provide the title compound as a

yellow oil (340 mg, 32%), LRMS ($M+H^+$) m/z 466.3.

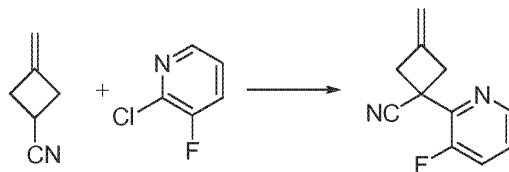


tert-butyl (1-(3-fluoropyridin-2-yl)cyclobutyl)methyl(6-(5-(5-oxo-4,5-dihydro-1H-1,2,4-triazol-3-yl)thiophen-2-yl)pyridazin-3-yl)carbamate. To a solution of tert-butyl 6-(5-cyanothiophen-2-yl)pyridazin-3-yl((1-(3-fluoropyridin-2-yl)cyclobutyl)methyl)carbamate (340 mg, 0.73 mmol, 1 equiv) in MeOH (10 mL) was added sodium methoxide (0.59 g, 1.1 mmol, 1.5 equiv). The reaction mixture was stirred at rt overnight followed by addition of hydrazine (0.5 mL). The mixture was then heated to reflux for 2 h and concentrated to dryness. The crude mixture was partitioned between EtOAc and water. The organic layer was washed with brine, dried over Na_2SO_4 , filtered, and concentrated. The crude product was dissolved in dioxane (3 mL), combined with CDI (137 mg, 1.46 mmol, 2 equiv), and heated for 4 h at 100 °C. The mixture was cooled, filtered, and purified by reverse phase chromatography to give the title compound as a yellow solid (86 mg, 23% over 3 steps), LRMS ($M+H^+$) m/z 524.3.

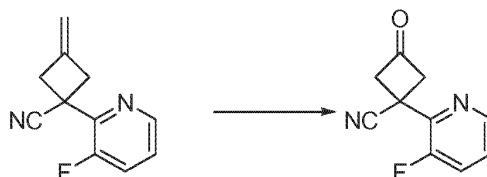


5-(5-(6-((1-(3-Fluoropyridin-2-yl)cyclobutyl)methylamino)pyridazin-3-yl)thiophen-2-yl)-2H-1,2,4-triazol-3(4H)-one. To tert-butyl (1-(3-fluoropyridin-2-yl)cyclobutyl)methyl(6-(5-(5-oxo-4,5-dihydro-1H-1,2,4-triazol-3-yl)thiophen-2-yl)pyridazin-3-yl)carbamate (86 mg, 0.16 mmol) in DCM (6 mL) was added TFA (2 mL) at rt. The reaction mixture was stirred at rt for 2 hr followed by concentration to dryness. The crude mixture was purified by reverse phase chromatography to provide the title compound as a pale yellow solid (73.6 mg, quantitative). LRMS ($M+H^+$) m/z 424.2.

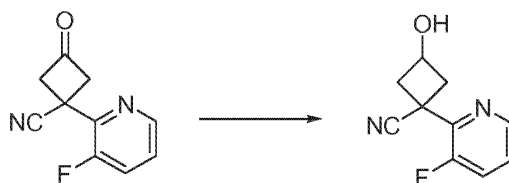
Example 35: Preparation of 4-fluoro-3-(6-(((*trans*)-3-fluoro-1-(3-fluoropyridin-2-yl)cyclobutyl)methylamino)pyridazin-3-yl)-N-methylbenzamide



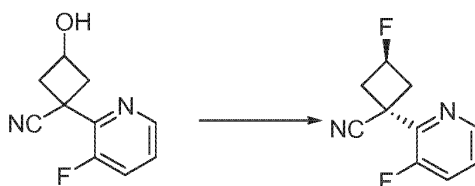
1-(3-Fluoropyridin-2-yl)-3-methylenecyclobutanecarbonitrile. To a solution of 3-methylenecyclobutanecarbonitrile (150 g, 1.61 mol, 1 equiv) and 2-chloro-3-fluoropyridine (212 g, 1.61 mmol, 1 equiv) in toluene (1 L) was added NaHMDS (2 M in THF, 885 mL, 1.1 equiv) dropwise at 0-10 °C. Upon completion of addition, the reaction mixture was warmed to rt, stirred overnight, and quenched with $\text{NH}_4\text{Cl}_{(\text{sat.})}$ solution. The organic layer was washed with water (500 mL x 2) and brine (500 mL), dried over Na_2SO_4 , filtered, and concentrated to give a crude title compound (272 g, 90%), which was used in the next step without further purification, LRMS ($\text{M}+\text{H}^+$) m/z 189.1.



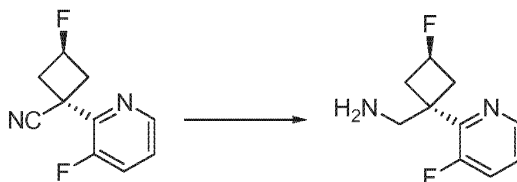
1-(3-Fluoropyridin-2-yl)-3-oxocyclobutanecarbonitrile. To a mixture of 1-(3-fluoropyridin-2-yl)-3-methylenecyclobutanecarbonitrile (272 g, 1.45 mol) and $\text{RuCl}_3 \cdot \text{H}_2\text{O}$ (9.0 g, 0.044 mol) in DCM (1 L), acetonitrile (1 L), and water (1.5 L) was added solid NaIO_4 (1235 g, 5.8 mol) portionwise at 10-30 °C. Upon completion of the addition, the reaction was stirred 1 h at 15 °C and overnight at rt. The solid precipitate was filtered off and washed with DCM (1 L x 2). The organic layer was washed with water (500 mL x 2) and brine (500 mL), dried over Na_2SO_4 , and concentrated to provide the title compound as a crude dark solid (238 g, 86.3%), LRMS ($\text{M}+\text{H}^+$) m/z 191.1.



1-(3-Fluoropyridin-2-yl)-3-hydroxycyclobutanecarbonitrile. To a solution of 1-(3-fluoropyridin-2-yl)-3-oxocyclobutanecarbonitrile (231 g, 1.22 mol) in a mixture of DCM (2 L) and MeOH (200 mL) was added NaBH₄ portion-wise at -78 °C. The reaction mixture was stirred 1 h at -78 °C and then quenched with a mixture of methanol and water (1/1). The organic layer was washed with water (500 mL x 3), dried over Na₂SO₄, and concentrated. The residue was purified on silica gel (50% EtOAc in Hexanes) to provide the title compound as an amber oil (185.8 g, 77.5%), LRMS (M+H⁺) *m/z* 193.2.

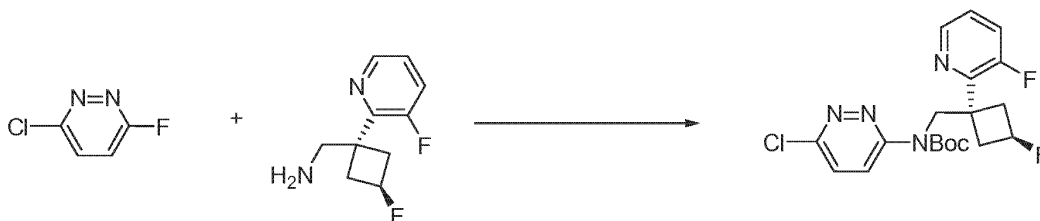


***trans*-3-Fluoro-1-(3-fluoropyridin-2-yl)cyclobutanecarbonitrile.** To a solution of 1-(3-fluoropyridin-2-yl)-3-hydroxycyclobutanecarbonitrile (185 g, 0.96 mol) in DCM (1 L) was added DAST portion-wise at 0-10 °C. Upon the completion of addition, the reaction was refluxed for 6 h. The reaction was cooled to rt and poured onto sat. NaHCO₃ solution. The mixture was separated and the organic layer was washed with water, dried over Na₂SO₄, and concentrated. The residue was purified on silica gel (100% DCM) to provide the title compound as a brown oil (116 g, 62%) with a *trans*/*cis* ratio of 8:1 as determined by ¹H NMR. The above brown oil (107 g) was dissolved in a mixture of toluene (110 mL) and hexanes (330 mL) at 70 °C. The solution was cooled to 0 °C and stirred at 0 °C overnight. The precipitate was filtered and washed with hexanes to provide a single *trans*-isomer white solid (87.3 g, 81.6%), LRMS (M+H⁺) *m/z* 195.1.

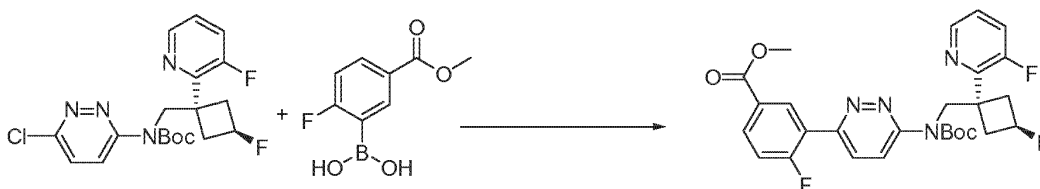


***trans*-3-Fluoro-1-(3-fluoropyridin-2-yl)cyclobutylmethanamine.** A mixture of *trans*-3-fluoro-1-(3-fluoropyridin-2-yl)cyclobutanecarbonitrile (71 g, 0.37 mol) and Raney nickel (~7 g) in 7N ammonia in methanol (700 mL) was charged with hydrogen (60 psi) for 2 days. The reaction was filtered through a

celite pad and washed with methanol. The filtrate was concentrated under high vacuum to provide the title compound as a light green oil (70 g, 98%), LRMS ($M+H^+$) m/z 199.2.

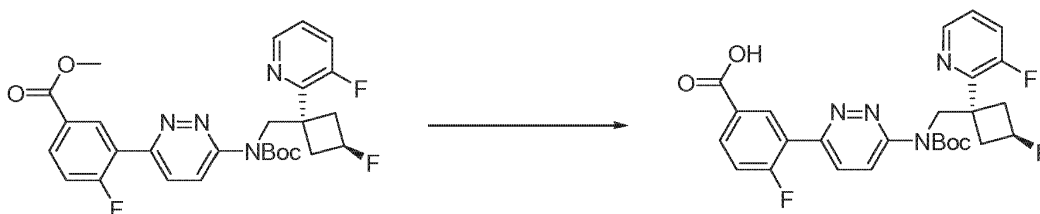


***t*-Butyl 6-chloropyridazin-3-yl(((*trans*)-3-fluoro-1-(3-fluoropyridin-2-yl)cyclobutyl)methyl)carbamate.** 3-Chloro-6-fluoropyridazine (10.11 g, 76.30 mmol, 1 equiv), *trans*-3-fluoro-1-(3-fluoropyridin-2-yl)cyclobutylmethanamine (15.10 g, 76.30 mmol, 4:1 *trans*/*cis* ratio), and K_2CO_3 (29.27 g, 304.9 mmol) in CH_3CN (20 mL) were refluxed overnight. Upon cooling, water was added into the mixture. The precipitate was collected and dried to give 9.2 g (39 %) of desired product with ratio of *trans*:*cis* greater than 20:1. To this solid (9.2 g) and DMAP (353 mg, 2.9 mmol) in THF (100 mL) was added $(Boc)_2O$ (12.8 g, 58.7 mmol). The mixture was then refluxed for 2 h, cooled, and concentrated. The residue was purified on silica gel to provide the title compound as a white solid (9 g, 75%), LRMS ($M+H^+$) m/z 411.2.



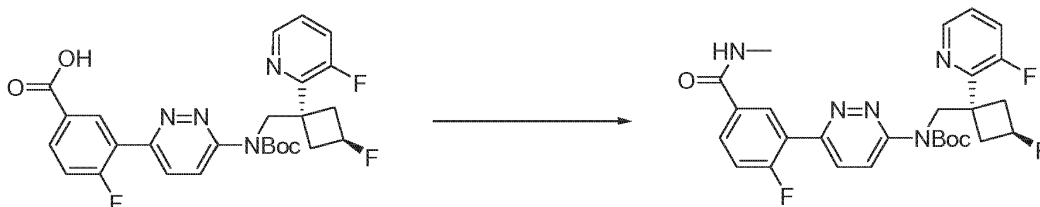
Methyl 3-(6-(*t*-butoxycarbonyl(((*trans*)-3-fluoro-1-(3-fluoropyridin-2-yl)cyclobutyl)methyl)amino)pyridazin-3-yl)-4-fluorobenzoate. To *t*-butyl 6-chloropyridazin-3-yl(((*trans*)-3-fluoro-1-(3-fluoropyridin-2-yl)cyclobutyl)methyl)carbamate (30.3 g, 73.9 mmol, 1 equiv), 2-fluoro-5-(methoxycarbonyl)phenylboronic acid (16.1 g, 81.3 mmol, 1.1 equiv), (dppf) $PdCl_2$ (6.0 g, 7.39 mmol, 0.1 equiv), K_2CO_3 (40.8 g, 296 mmol, 4 equiv) were added dioxane (160 mL) and water (40 mL). The mixture was heated 2 h at 80 °C, cooled and diluted with EtOAc. The organic layer was washed

with brine, dried over Na₂SO₄, filtered, and concentrated. The residue was purified on silica gel to provide the title compound as pale orange solid (29.4 g, 75%), LRMS (M+H⁺) *m/z* 529.2.



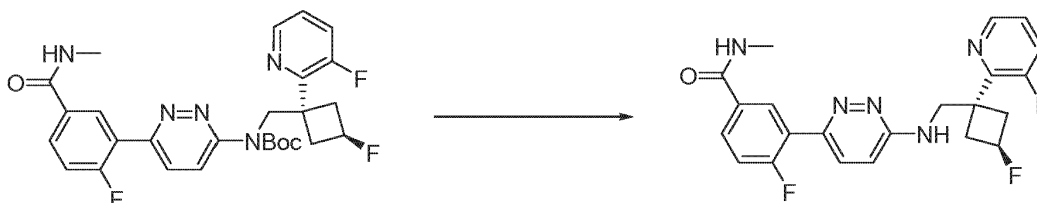
3-(6-(*t*-butoxycarbonyl(((*trans*)-3-fluoro-1-(3-fluoropyridin-2-yl)cyclobutyl)methyl)amino)pyridazin-3-yl)-4-fluorobenzoic acid.

To a 500 mL round bottom flask was added methyl 3-(6-(*t*-butoxycarbonyl(((*trans*)-3-fluoro-1-(3-fluoropyridin-2-yl)cyclobutyl)methyl)amino)pyridazin-3-yl)-4-fluorobenzoate (29.4 g, 55.7 mmol, 1 equiv), THF (200 mL), MeOH (100 mL), and NaOH (74.2 mL of a 3N aqueous solution, 222 mmol). The mixture was heated 30 min at 60 °C, cooled, acidified to pH 3 with NaHSO₄ (1N), and concentrated. The residue was partitioned between EtOAc and water. The organic layer was washed with brine, dried over Na₂SO₄, filtered, and concentrated to provide the title compound as a pale orange solid (29 g, crude), LRMS (M+H⁺) *m/z* 515.2.



***t*-Butyl (((*trans*)-3-fluoro-1-(3-fluoropyridin-2-yl)cyclobutyl)methyl(6-(2-fluoro-5-(methylcarbamoyl)phenyl)pyridazin-3-yl)carbamate.** To 3-(6-(*t*-butoxycarbonyl(((*trans*)-3-fluoro-1-(3-fluoropyridin-2-yl)cyclobutyl)methyl)amino)pyridazin-3-yl)-4-fluorobenzoic acid (29 g, 55.7 mmol, 1 equiv) in DCM (200 mL) was added oxalyl chloride (19.4 mL, 222 mmol, 4 equiv). The reaction was stirred for 1 h, concentrated, and azeotroped twice with toluene. The crude product was then dissolved in DCM and cooled to 0 °C. To this mixture was added NH₂Me (2 M/THF, 278 mL, 556.8 mmol). The mixture was warmed to rt and stirred at rt for 30 min. The

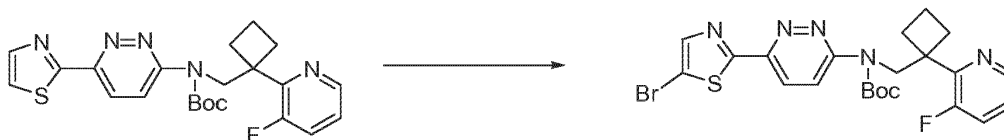
solid was filtered off and the filtrate was concentrated. The crude product was purified on silica gel to provide the title compound as pale yellow solid (28.1 g, 96%), LRMS ($M+H^+$) m/z 528.2.



4-fluoro-3-(6-(((*trans*)-3-fluoro-1-(3-fluoropyridin-2-yl)cyclobutyl)methylamino)pyridazin-3-yl)-N-methylbenzamide.

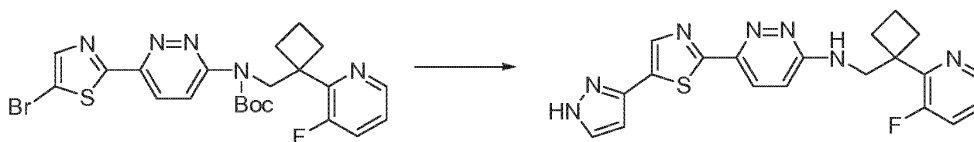
To tert-butyl ((*trans*)-3-fluoro-1-(3-fluoropyridin-2-yl)cyclobutyl)methyl(6-(2-fluoro-5-(methylcarbamoyl)phenyl)pyridazin-3-yl)carbamate (28.1 g, 53.3 mmol) in DCM (100 mL) was added TFA (40 mL, 533 mmol, 10 equiv) at rt. The reaction mixture was further stirred at rt for 2 h followed by concentration to dryness. The residue was partitioned between EtOAc and NaHCO_3 . The pH was further adjusted to pH 9 with NaOH (1 N). The organic layer was washed with brine, dried over Na_2SO_4 , filtered, and concentrated to give 25.2 g of a pale yellow solid. The solid was dissolved in EtOH (80 mL), warmed to 66 °C and diluted with water (80 mL) at 66 °C. The mixture was slowly cooled to rt with stirring. The precipitate was filtered, washed with water, and dried to provide the title compound as a white solid (21.2 g, 93%), LRMS ($M+H^+$) m/z 428.2.

Example 36: Preparation of 6-(5-(1H-pyrazol-3-yl)thiazol-2-yl)-N-((1-(3-fluoropyridin-2-yl)cyclobutyl)methyl)pyridazin-3-amine



***t*-Butyl 6-(5-bromothiazol-2-yl)pyridazin-3-yl((1-(3-fluoropyridin-2-yl)cyclobutyl)methyl)carbamate.** To a 100 mL round bottom flask was added *t*-butyl (1-(3-fluoropyridin-2-yl)cyclobutyl)methyl(6-(thiazol-2-yl)pyridazin-3-yl)carbamate (2.0 g, 4.6 mmol), NBS (1.6 g, 9.1 mmol), and DMF (20 mL). The reaction was heated to 100 °C and stirred overnight. The

reaction mixture was then poured into ethyl acetate (200 mL), washed with water (100 mL), dried over Na₂SO₄, filtered, concentrated, and purified by silica gel chromatography (EtOAc/hex) to afford 1.8 g of *t*-butyl 6-(5-bromothiazol-2-yl)pyridazin-3-yl((1-(3-fluoropyridin-2-yl)cyclobutyl)methyl)carbamate.



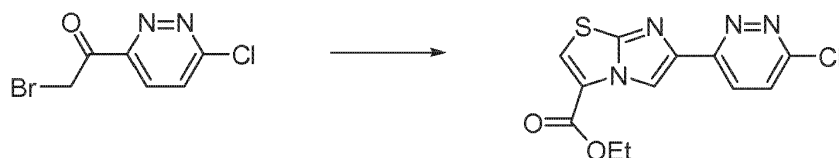
6-(5-(1H-pyrazol-3-yl)thiazol-2-yl)-N-((1-(3-fluoropyridin-2-yl)cyclobutyl)methyl)pyridazin-3-amine. To a microwave vial was added *t*-butyl 6-(5-bromothiazol-2-yl)pyridazin-3-yl((1-(3-fluoropyridin-2-yl)cyclobutyl)methyl)carbamate (100 mg, 0.19 mmol), 1H-pyrazol-5-ylboronic acid (32 mg, 0.29 mmol), (dppf)PdCl₂ (16 mg, 0.02 mmol), dioxane (2 mL), and K₂CO₃ (0.2 mL of a 2M aqueous solution, 38 mmol). The mixture was heated to 140 °C in a microwave reactor and stirred for 20 min. The reaction mixture was then poured into ethyl acetate (50 mL), washed with water (20 mL), dried over Na₂SO₄, filtered, concentrated, and purified by silica gel chromatography (EtOAc/hex) to afford 38 mg of *t*-butyl 6-(5-(1H-pyrazol-3-yl)thiazol-2-yl)pyridazin-3-yl((1-(3-fluoropyridin-2-yl)cyclobutyl)methyl)carbamate. This compound was dissolved in CH₂Cl₂ (5 mL) and TFA (1 mL). The reaction was stirred for 30 min at rt, concentrated, and then purified using reverse phase chromatography to give 15 mg of 6-(5-(1H-pyrazol-3-yl)thiazol-2-yl)-N-((1-(3-fluoropyridin-2-yl)cyclobutyl)methyl)pyridazin-3-amine, (M+H=408.3).

Example 37: Preparation of 6-(6-((*trans*-3-fluoro-1-(3-fluoropyridin-2-yl)cyclobutyl)methylamino)pyridazin-3-yl)imidazo[2,1-*b*]thiazole-3-carboxamide



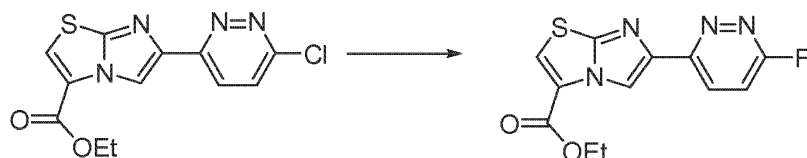
2-Bromo-1-(6-chloropyridazin-3-yl)ethanone. To a stirring solution of dioxane (100 mL, degassed) was added 3,6-dichloropyridazine (5.0 g, 34 mmol), Cl₂Pd(PPh₃)₂ (2.4 g, 3.4 mmol), and tributyl(1ethoxyvinyl)tin (18.2 g,

50 mmol). The reaction was heated to 100 °C and stirred for 1 h. The reaction was then concentrated, followed by the addition of EtOAc (100 mL) and potassium fluoride (50 mL of a saturated aqueous solution). The mixture was stirred for 30 min and then filtered through a pad of Celite. The filtrate was concentrated and then dissolved in THF (80 mL) and water (80 mL). NBS (18.1 g, 102 mmol) was then added, and the reaction was stirred for 20 min at rt. The reaction mixture was poured into ethyl acetate (200 mL), washed twice with brine (50 mL), dried over Na₂SO₄, filtered, concentrated, and purified by silica gel chromatography to afford 4.2 g of 2-bromo-1-(6-chloropyridazin-3-yl)ethanone.



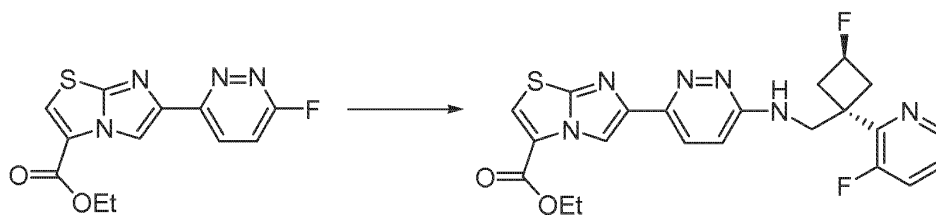
Ethyl 6-(6-chloropyridazin-3-yl)imidazo[2,1-b]thiazole-3-

carboxylate. To a 20 dram vial was added 2-bromo-1-(6-chloropyridazin-3-yl)ethanone (4.2 g, 18 mmol), ethyl-2-aminothiazole-4-carboxylate (3.1 g, 18 mmol), and methylethylketone (40 mL). The mixture was heated to 90 °C and stirred overnight. The reaction was then concentrated and purified by silica gel chromatography (EtOAc/hex) to afford 1.0 g of ethyl 6-(6-chloropyridazin-3-yl)imidazo[2,1-b]thiazole-3-carboxylate as a yellow solid.

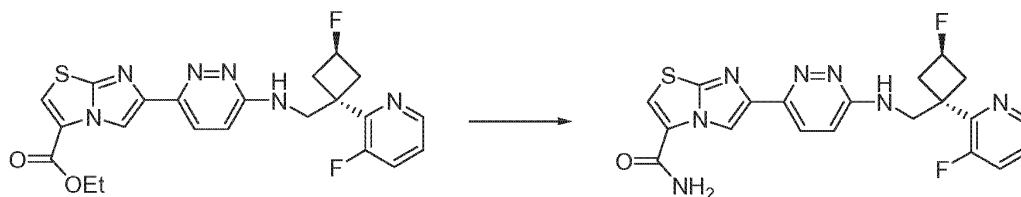


Ethyl 6-(6-fluoropyridazin-3-yl)imidazo[2,1-b]thiazole-3-

carboxylate. To a 20 dram vial was added ethyl 6-(6-chloropyridazin-3-yl)imidazo[2,1-b]thiazole-3-carboxylate (1.0 g, 3.2 mmol), 1,8-bis(dimethylamino)naphthalene (1.4 g, 6.4 mmol), and Et₃N·3HF (30 mL). The reaction was heated in a microwave to 140 °C and stirred for 1.5 h. The reaction mixture was poured into ethyl acetate (100 mL), washed with water (50 mL), dried over Na₂SO₄, filtered, concentrated, and purified by silica gel chromatography to afford 760 mg of ethyl 6-(6-fluoropyridazin-3-yl)imidazo[2,1-b]thiazole-3-carboxylate as a yellow solid.

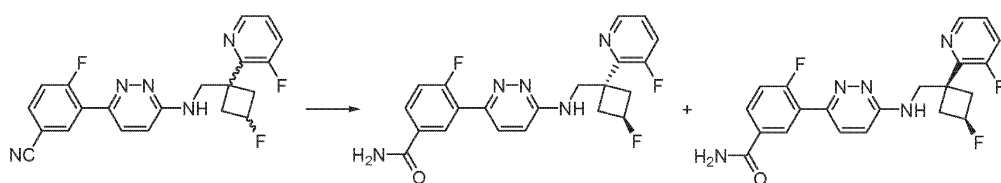


Ethyl 6-(6-(((*trans*)-3-fluoro-1-(3-fluoropyridin-2-yl)cyclobutyl)methylamino)pyridazin-3-yl)imidazo[2,1-b]thiazole-3-carboxylate. Ethyl 6-(6-fluoropyridazin-3-yl)imidazo[2,1-b]thiazole-3-carboxylate (65 mg, 0.2 mmol), (*trans*-3-fluoro-1-(3-fluoropyridin-2-yl)cyclobutyl)methanamine (56 mg, 0.29 mmol), DIPEA (114 μ L, 0.66 mmol), and NMP (3 mL). The reaction was heated to 165 $^{\circ}$ C and stirred for 2 h. The reaction was then purified directly using reverse phase chromatography to give 15 mg of ethyl 6-(6-(((*trans*)-3-fluoro-1-(3-fluoropyridin-2-yl)cyclobutyl)methylamino)pyridazin-3-yl)imidazo[2,1-b]thiazole-3-carboxylate.



6-(6-(((*trans*)-3-fluoro-1-(3-fluoropyridin-2-yl)cyclobutyl)methylamino)pyridazin-3-yl)imidazo[2,1-b]thiazole-3-carboxamide. To a solution of ethyl 6-(6-(((*trans*)-3-fluoro-1-(3-fluoropyridin-2-yl)cyclobutyl)methylamino)pyridazin-3-yl)imidazo[2,1-b]thiazole-3-carboxylate (20 mg, 0.05 mmol) in dioxane (0.5 mL) was added LiOH (1 M, 0.15 mL, 0.15 mmol). The reaction mixture was stirred at rt for 1 h and then concentrated. To this crude mixture was added NH_4Cl (28 mg, 0.5 mmol), HATU (28 mg, 0.075 mmol), HOAt (10 mg, 0.075 mmol), DIEA (19 mg, 0.15 mmol), and DMF (1 mL). The mixture was stirred at 50 $^{\circ}$ C for 30 min and then was purified directly by reverse phase chromatography to provide 2 mg of 6-(6-(((*trans*)-3-fluoro-1-(3-fluoropyridin-2-yl)cyclobutyl)methylamino)pyridazin-3-yl)imidazo[2,1-b]thiazole-3-carboxamide as a white solid, ($\text{M}+\text{H}=442.1$).

Example 38: Preparation of 4-Fluoro-3-(6-(((*trans*)-3-fluoro-1-(3-fluoropyridin-2-yl)cyclobutyl)methylamino)pyridazin-3-yl)benzamide and 4-fluoro-3-(6-(((*cis*)-3-fluoro-1-(3-fluoropyridin-2-yl)cyclobutyl)methylamino)pyridazin-3-yl)benzamide



To a solution of 4-fluoro-3-(6-((3-fluoro-1-(3-fluoropyridin-2-yl)cyclobutyl)methylamino)pyridazin-3-yl)benzonitrile (482 mg, 1.22 mmol, 95:5 *cis/trans* ratio) in DMSO (3 mL) was added potassium carbonate (673 mg, 4.88 mmol). The mixture was cooled to 0 °C and hydrogen peroxide (0.6 mL) was slowly added. The reaction was warmed to rt and stirred for 2 h. The reaction was diluted with EtOAc (75 mL) and water (50 mL), and the organic layer was washed three times with brine (50 mL). The organic layer was then dried over Na₂SO₄, filtered, concentrated, and purified by reverse phase chromatography to afford 470 mg of 4-fluoro-3-(6-(((*trans*)-3-fluoro-1-(3-fluoropyridin-2-yl)cyclobutyl)methylamino)pyridazin-3-yl)benzamide and 6 mg of 4-fluoro-3-(6-(((*cis*)-3-fluoro-1-(3-fluoropyridin-2-yl)cyclobutyl)methylamino)pyridazin-3-yl)benzamide as white solids (M+H=414.3).

Example 39: Preparation and assay of fast skeletal myofibrils

Preparation of fast skeletal myofibrils. Rabbit skeletal myofibrils were prepared based upon the method of Herrmann et al. (Biochem. 32(28):7255-7263(1993). Myofibrils were prepared from rabbit psoas muscle purchased from Pel-Freez Biologicals (Arkansas) within 2 days of ordering, stored on ice. Minced muscle was homogenized in 10 volumes of ice-cold "standard" buffer (50mM Tris, pH 7.4, 0.1 M potassium acetate, 5 mM KCl, 2 mM DTT, 0.2 mM PMSF, 10 µM leupeptin, 5 µM pepstatin, and 0.5 mM sodium azide) containing 5 mM EDTA and 0.5% Triton X-100 using an Omni-Macro homogenizer. Myofibrils were recovered by low speed centrifugation (3000 rpm for 10 minutes) and washed 2 times in the Triton X-100 containing

buffer to ensure removal of cellular membrane. Following the Triton washes, myofibrils were washed 3 times in "standard" buffer containing 2 mM magnesium acetate. A final wash in assay buffer (12 mM PIPES, pH 6.8, 60 mM KCl, 1 mM DTT) was performed and brought to 10% sucrose for flash freezing in liquid nitrogen and storage at -80°C.

Activation of Fast Skeletal Myofibrils. Fast fiber activators were identified by measuring the enzymatic activity of muscle myofibril preparations using the proprietary PUMATM (see, e.g., U.S. Patent Nos. 6,410,254, 6,743,599, 7,202,051, and 7,378,254) assay system. Myofibril preparations consisted of rabbit skeletal muscle (approximately 90% fast fibers) that had been mechanically homogenized and washed with a detergent (triton X-100) to remove cellular membranes. This preparation retained all of the sarcomeric components in a native conformation and the enzymatic activity was still regulated by calcium. Compounds were tested using a myofibril suspension and a level of calcium sufficient to increase enzymatic activity of the myofibrils to 25% of their maximal rate (termed pCa25). Enzymatic activity was tracked via a pyruvate kinase and lactate dehydrogenase-coupled enzyme system. This assay regenerates myosin-produced ADP into ATP by oxidizing NADH, producing an absorbance change at 340 nm. The buffering system was 12 mM Pipes, 2 mM MgCl₂, 1 mM DTT at pH 6.8 (PM12 buffer). Data was reported as AC1.4, which is the concentration at which the compound increased the enzymatic activity by 40%. The results are summarized in Table 2 below.

Example 40: Preparation and Assay of Sarcomeric Proteins from Skeletal Muscle

Powder Preparation

1. Volumes are given per about 1000 g of the minced muscle.
2. Pre-cut and boil cheesecloth for 10 min in water. Drain and dry.
3. Mince chicken breast in a prechilled meat grinder.
4. Extract with stirring in 2 L of 0.1 M KCl, 0.15 M K-phosphate, pH 6.5 for 10 min at 4 °C. Spin 5000 rpm, 10 min, 4 °C in JLA. Collect the pellet.
5. Extract pellets with stirring with 2 L of 0.05 M NaHCO₃ for 5 min. Spin

5000 rpm, 10min, 4 °C in JLA. Collect the pellet. Repeat the extraction once more.

6. Extract the filtered residue with 2 L of 1 mM EDTA, pH 7.0 for 10 min with stirring.
7. Extract with 2 L of H₂O for 5 min with stirring. Spin 10000 rpm, 15min, 4 °C in JLA. Carefully collect the pellet, part of which will be loose and gelatinous.
8. Extract 5 times with acetone (2 L of acetone for 10 min each with stirring). Squeeze through cheesecloth gently. All acetone extractions are performed at room temperature. Acetone should be prechilled to 4 °C.
9. Drying: Place the filtered residue spread on a cheesecloth in a large glass tray and leave in a hood overnight. When the residue is dry, put in a wide mouth plastic bottle and store at 20 °C.

Alternate Powder Preparation

(See Zot & Potter (1981) Prep. Biochem. 11(4) pp. 381-395)

1. Dissect left ventricles of the cardiac muscle. Remove as much of the pericardial tissue and fat as possible. Grind in a prechilled meat grinder. Weigh.
2. Prepare 5 volumes of Extract buffer (see below). Homogenize the meat in a blender, 4 times 15 sec on blend with 15 secs in between. Do this with 1 volume (weight/volume) of buffer taken from the 5 volumes already prepared. Add the homogenate back to the extract buffer and stir until well mixed (5 minutes).
3. Filter through one layer of cheesecloth in large polypropylene strainer. Resuspend back into 5 volumes of extract buffer as above.
4. Repeat Step 3 four more times. At the end, do not resuspend in extraction buffer but proceed to Step 5. The pellets should be yellow white.
5. Resuspend in 3 volumes (according to original weight) of 95% cold ethanol. Stir for 5 min and squeeze through cheesecloth as above, repeat two more times.
6. Weigh squeezed residue and then resuspend in 3 volumes (new weight/volume) of cold diethyl ether.
7. Repeat Step 6 a total of three times.
8. Leave overnight in a single layer on a cheesecloth in a glass tray.

9. When dry, collect the powder, weigh and store in a wide-mouth jar at 4 °C.

EXTRACT BUFFER: 50 mM KCl, 5 mM Tris pH 8.0 Prepare as 50 times concentrate. For 2L: 250 mM Tris pH 8.0. Tris Base (121.14 g/mol, 60.6 g), pH to 8.0 with conc. HCl, then add 2.5 M KCl (74.55 g/mol, 372 g).

Actin Preparation

1. Extract powder (as described above) with 20 ml buffer A (see below, add BME and ATP just prior to use in each of the following steps) per gram of powder (200 ml per 10 g). Use a large 4 L beaker for 150 g of powder. Mix vigorously to dissolve powder. Stir at 4 °C. for 30 min.
2. Separate extract from the hydrated powder by squeezing through several layers of cheesecloth. Cheesecloth should be pre-sterilized by microwaving damp for 1-2 min.
3. Re-extract the residue with the same volume of buffer A and combine extracts.
4. Spin in JLA10 rotor(s) for 1 hr at 10K rpm (4 °C.). Collect supernatant through 2 layers of cheesecloth.
5. Add ATP to 0.2 mM and MgCl₂ to 50 mM. Stir on stir plate at 4 °C for 60 minutes to allow actin to polymerize/form para-crystals.
6. Slowly add solid KCl to 0.6 M (45 g/l). Stir at 4 °C for 30 min.
7. Spin in JLA10 rotor(s) at 10K rpm for 1 hr.
8. Depolymerization: Quickly rinse surface of pellets with buffer A and dispose of wash. Soften the pellets by pre-incubation on ice with small amount of buffer A in each tube (use less than half of final resuspension volume total in all tubes). Resuspend by hand first with cell scraper and combine pellets. Wash tubes with extra buffer using a 25 ml pipette and motorized pipettor, aggressively removing actin from sides of tubes. Homogenize in large dounce in cold buffer A on ice. Use 3 ml per gram of powder originally extracted.
9. Dialyze against buffer A with 4 changes over 48 hour period.
10. Collect dialyzed actin and spin in the 45Ti rotor at 40K rpm for 1.5 hr (4 °C).
11. Collect supernatant (G-Actin). Save a sample for gel analysis and determination of protein concentration.

12. To polymerize G-actin for storage, add KCl to 50 mM (from 3 M stock), MgCl_2 to 1 mM, and NaN_3 to 0.02% (from 10% stock). Store at 4 °C. Do not freeze.

Buffer A: 2 mM tris/HCl, 0.2 mM CaCl_2 , 0.5 mM (36 $\mu\text{L/L}$) 2-mercaptoethanol, 0.2 mM Na_2ATP (added fresh), and 0.005% Na-azide; pH 8.0.

Purification of Skeletal Muscle Myosin

(See Margossian, S.S. and Lowey, S. (1982) *Methods Enzymol.* 85, 55-123; and Goldmann, W.H. and Geeves, M.A. (1991) *Anal. Biochem.* 192, 55-58)

Solution A: 0.3 M KCl, 0.15 M potassium phosphate, 0.02 M EDTA, 0.005 M MgCl_2 , 0.001 M ATP, pH 6.5.

Solution B: 1 M KCl, 0.025 M EDTA, 0.06 M potassium phosphate, pH 6.5.

Solution C: 0.6 M KCl, 0.025 M potassium phosphate, pH 6.5.

Solution D: 0.6 M KCl, 0.05 M potassium phosphate, pH 6.5.

Solution E: 0.15 M potassium phosphate, 0.01 M EDTA, pH 7.5.

Solution F: 0.04 M KCl, 0.01 M potassium phosphate, 0.001 M DTT, pH 6.5.

Solution G: 3 M KCl, 0.01 M potassium phosphate, pH 6.5.

All procedures are carried out at 4 °C.

1. Obtain approx. 1000 g skeletal muscle, such as rabbit skeletal muscle.

2. Grind twice; extract with 2 L solution A for 15 min while stirring; add 4 L cold H_2O , filter through gauze; dilute with cold H_2O to ionic strength of 0.04, (about 10-fold); let settle for 3 h; collect precipitate at 7,000 rpm in GSA rotor for 15 min.

3. Disperse pellet in 220 ml solution B; dialyze overnight against 6 L solution C; slowly add ~400 ml equal volume cold distilled H_2O ; stir for 30 min; centrifuge at 10,000 rpm for 10 min in GSA rotor.

4. Centrifuge supernatant at 19,000 rpm for 1 h.

5. Dilute supernatant to ionic strength of 0.04 (~8-fold); let myosin settle overnight; collect about 5-6 L fluffy myosin precipitate by centrifuging at 10,000 rpm for 10 min in GSA rotor.

6. Resuspend pellet in minimal volume of solution G; dialyze overnight against 2 L solution D; centrifuge at 19,000 rpm for 2 h, in cellulose nitrate tubes; puncture tubes and separate myosin from fat and insoluble pellet.

7. Dilute supernatant to 5-10 mg/ml and dialyze against solution E extensively, load onto DEAE-sephadex column.

8. Pre-equilibrate with solution E; apply 500-600 g myosin at 30 ml/h; wash with 350 ml solution E; elute with linear gradient of 0-0.5 M KCl in solution E (2 x 1 liter); collect 10 ml fractions; pool myosin fractions (>0.1 M KCl); concentrate by overnight dialysis against solution F; centrifuge at 25,000 rpm for 30 min; store as above.
9. The myosin is then cut with chymotrypsin or papain in the presence of EDTA to generate the S1 fragment which is soluble at the low salt conditions optimal for ATPase activity (Margossian, supra).

Preparation and Assay

Myosin is prepared by precipitation from salt extracts of rabbit psoas muscle, and a soluble S1 fraction is prepared by digestion with chymotrypsin (Margossian and Lowey, 1982).

Actin is purified by first preparing an ether powder of cardiac muscle (Zot HG and Potter J D. (1981) Preparative Biochemistry 11:381-395) as described above. Subsequently, actin is cycled between the filamentous and soluble state through rounds of centrifugation and dialysis (Spudich J A and Watt S. (1971) J. Biol. Chem. 246:4866-4871).

Tropomyosin is extracted from the ether powder and separated from the other proteins based on pH dependent precipitations followed by successive ammonium sulfate cuts at 53% and 65% (Smillie LB. (1981) Methods Enzymol 85 Pt B:234-41). The troponins are isolated as an intact complex of TnC, TnT, and TnI. Ether powder is extracted in a high salt buffer. Successive ammonium sulfate cuts of 30% and 45% are done; the precipitate is solubilized by dialysis into a low salt buffer and then further purified on a DEAE Toyopearl column with a 25-350 mM KCl gradient. There is no measurable ATPase in any of the components except for myosin which naturally had a very low basal ATPase in the absence of actin.

Prior to screening, the actin, tropomyosin, and troponin complex are mixed together in the desired ratio (e.g., 7:1:1) to achieve maximal calcium regulation of the actin filament. The screen is conducted at a concentration that gives 25% activation. This calcium concentration is in the physiological range during muscle contraction.

To measure the generation of ADP during the reaction, a pyruvate kinase/lactate dehydrogenase/NADH coupled enzyme system (PK/LDH) is

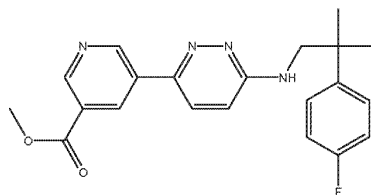
added to the actin. The myosin is kept separately, and added to the regulated thin filaments to initiate the reaction. Oxidation of NADH is monitored in real time, so that kinetic curves are obtained. Compounds are dissolved in DMSO and spotted onto the bottoms of 384 well plates at 10 to 40 $\mu\text{g/ml}$ final concentration.

Using procedures similar to those described herein, utilizing reagents and intermediates commercially available (e.g., Sigma-Aldrich, St. Louis, MO) or readily synthesized by one of skill in the art, the compounds in Table 2 were synthesized, characterized and tested. AC1.4 values were determined according to the procedure described in Example 39, and the reported median AC1.4 values are as follows: A = < 1 μM ; B = 1-10 μM ; C = 10-20 μM ; D = >20 μM .

Table 2

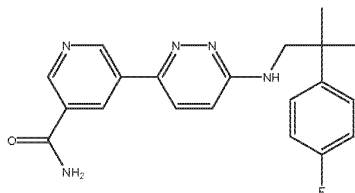
Compound	Structure	m/z (M+H)	Mean AC1.4
3-(6-{[2-(4-fluorophenyl)-2-methylpropyl]amino}pyridazin-3-yl)benzamide		365.2	A
4-(6-{[2-(4-fluorophenyl)-2-methylpropyl]amino}pyridazin-3-yl)benzamide		365.1	B
5-(6-{[2-(4-fluorophenyl)-2-methylpropyl]amino}pyridazin-3-yl)pyridine-3-carbonitrile		348.1	B

methyl 5-(6-{[2-(4-fluorophenyl)-2-methylpropyl]amino}pyridazin-3-yl)pyridine-3-carboxylate



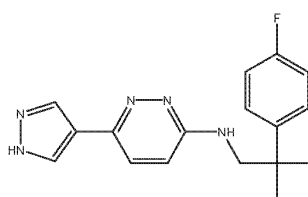
381.1 B

5-(6-{[2-(4-fluorophenyl)-2-methylpropyl]amino}pyridazin-3-yl)pyridine-3-carboxamide



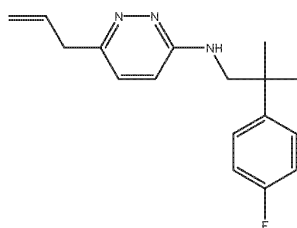
366.1 B

[2-(4-fluorophenyl)-2-methylpropyl](6-pyrazol-4-yl)pyridazin-3-ylamine



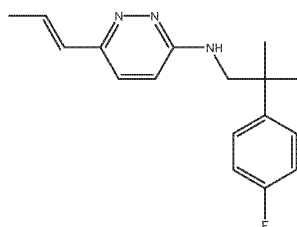
312.1 B

[2-(4-fluorophenyl)-2-methylpropyl](6-prop-2-enyl)pyridazin-3-ylamine



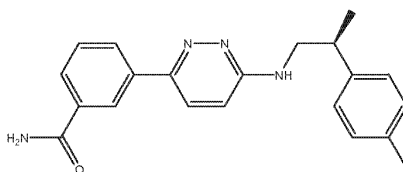
281.6 B

[6-((1E)prop-1-enyl)pyridazin-3-yl][2-(4-fluorophenyl)-2-methylpropyl]amine



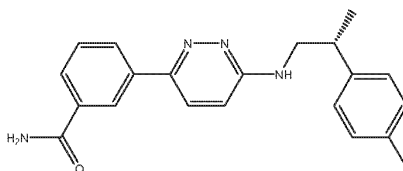
286.1 B

3-(6-([(2S)-2-(4-fluorophenyl)propyl]amino)pyridazin-3-yl)benzamide



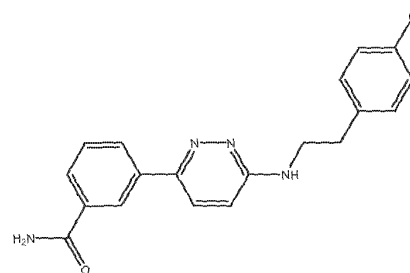
351.0 B

3-(6-([(2R)-2-(4-fluorophenyl)propyl]amino)pyridazin-3-yl)benzamide



351.0 B

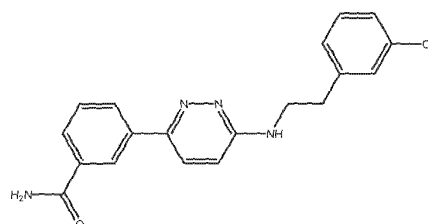
3-(6-{{2-(4-chlorophenyl)ethyl}amino}pyridazin-3-yl)benzamide



353.1

D

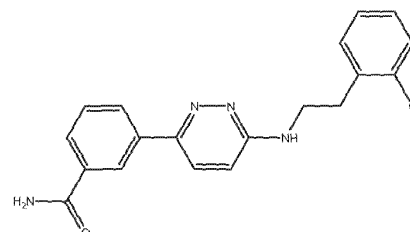
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353.1

B

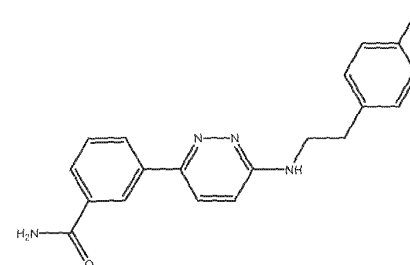
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353.1

B

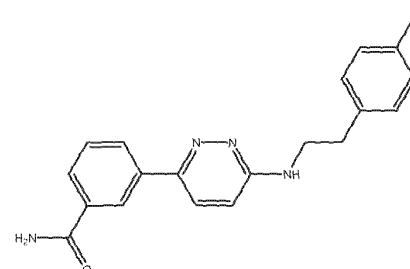
3-(6-{{2-(4-methylphenyl)ethyl}amino}pyridazin-3-yl)benzamide



333.2

C

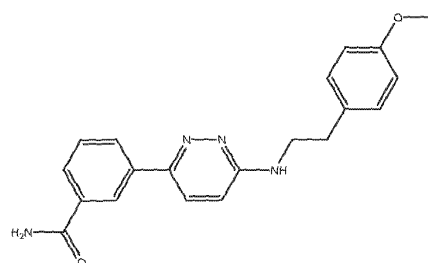
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337.1

D

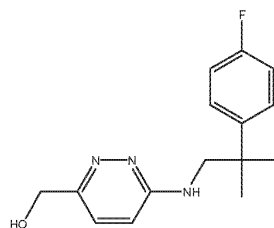
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349.1

D

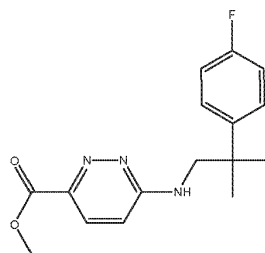
(6-{{2-(4-fluorophenyl)-2-methylpropyl}amino}pyridazin-3-yl)methan-1-ol



276.1

D

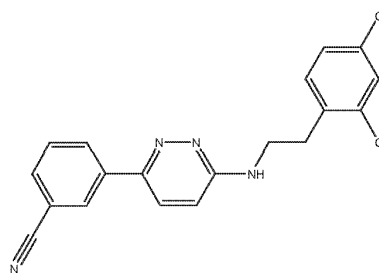
methyl 6-{{2-(4-fluorophenyl)-2-methylpropyl}amino}pyridazine-3-carboxylate



304.2

C

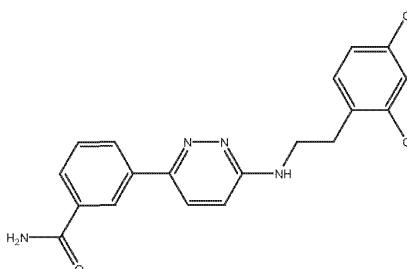
3-(6-{{2-(2,4-dichlorophenyl)ethyl}amino}pyridazin-3-yl)benzenecarbonitrile



369.0

D

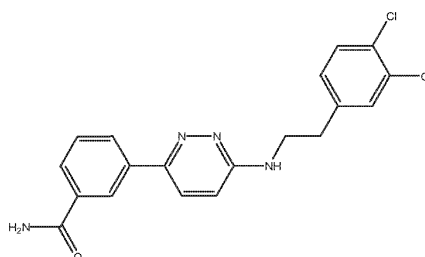
3-(6-{{2-(2,4-dichlorophenyl)ethyl}amino}pyridazin-3-yl)benzamide



387.0

C

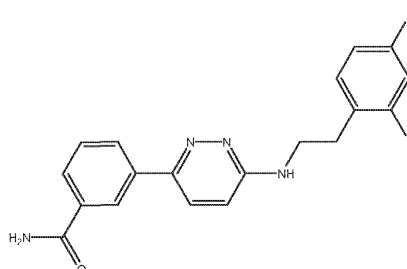
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387.0

C

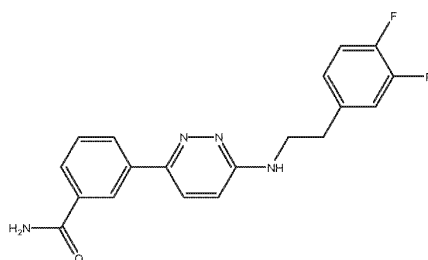
3-(6-{{2-(2,4-difluorophenyl)ethyl}amino}pyridazin-3-yl)benzamide



355.1

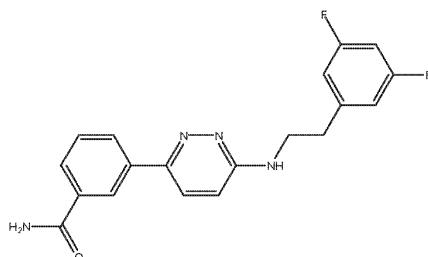
D

3-(6-([2-(3,4-difluorophenyl)ethyl]amino)pyridazin-3-yl)benzamide



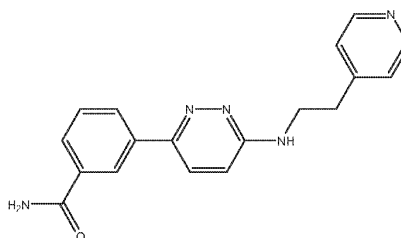
355.1 C

3-(6-([2-(3,5-difluorophenyl)ethyl]amino)pyridazin-3-yl)benzamide



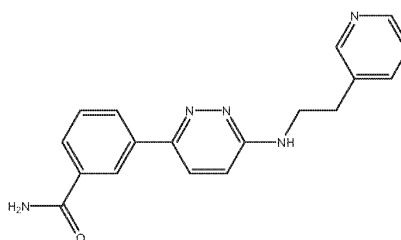
355.1 D

3-(6-([2-(4-pyridyl)ethyl]amino)pyridazin-3-yl)benzamide



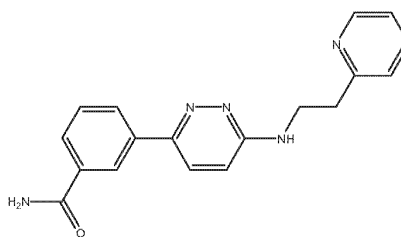
320.1 D

3-(6-([2-(3-pyridyl)ethyl]amino)pyridazin-3-yl)benzamide



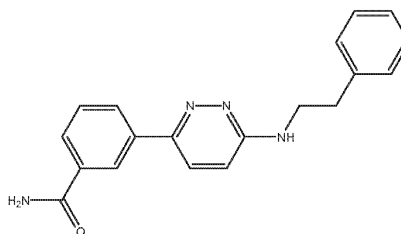
320.1 D

3-(6-([2-(2-pyridyl)ethyl]amino)pyridazin-3-yl)benzamide



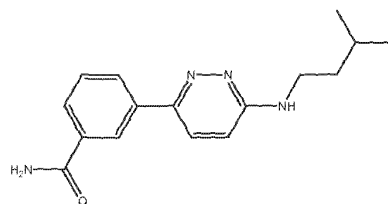
320.1 D

3-(6-([2-phenylethyl]amino)pyridazin-3-yl)benzamide



319.1 D

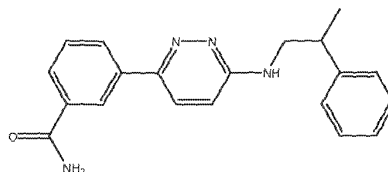
3-{6-[(3-methylbutyl)amino]pyridazin-3-yl}benzamide



319.1

D

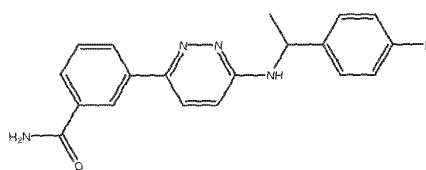
3-{6-[(2-phenylpropyl)amino]pyridazin-3-yl}benzamide



333.1

B

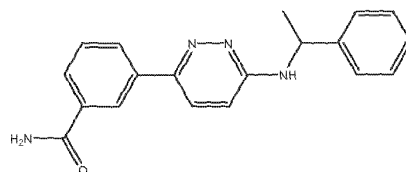
3-{6-[(4-fluorophenyl)ethyl]amino}pyridazin-3-yl}benzamide



337.1

C

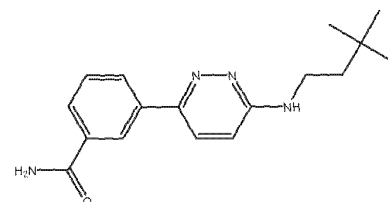
3-{6-[(phenylethyl)amino]pyridazin-3-yl}benzamide



319.1

D

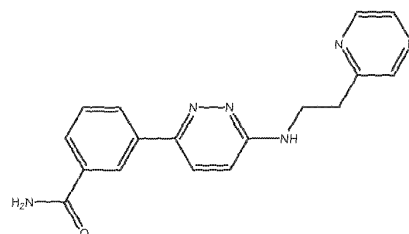
3-{6-[(3,3-dimethylbutyl)amino]pyridazin-3-yl}benzamide



299.2

D

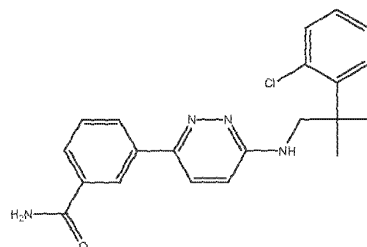
3-{6-[(2-pyrazin-2-ylethyl)amino]pyridazin-3-yl}benzamide



321.1

D

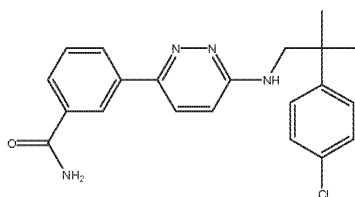
3-{6-[[2-(2-chlorophenyl)-2-methylpropyl]amino]pyridazin-3-yl}benzamide



381.1

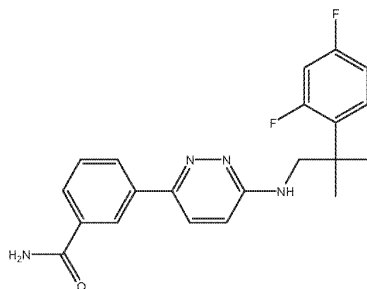
A

3-(6-([2-(4-chlorophenyl)-2-methylpropyl]amino)pyridazin-3-yl)benzamide



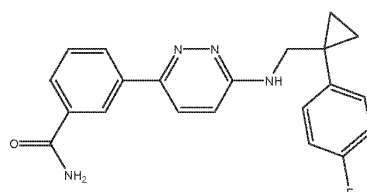
381.1 B

3-(6-([2-(2,4-difluorophenyl)-2-methylpropyl]amino)pyridazin-3-yl)benzamide



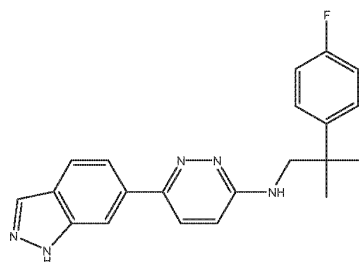
383.1 B

3-[6-([(4-fluorophenyl)cyclopropyl]methyl]amino)pyridazin-3-yl]benzamide



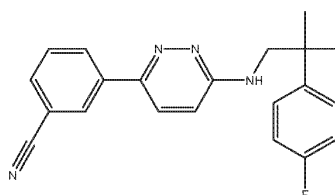
362.2 A

(6-(1H-indazol-6-yl)pyridazin-3-yl)[2-(4-fluorophenyl)-2-methylpropyl]amine



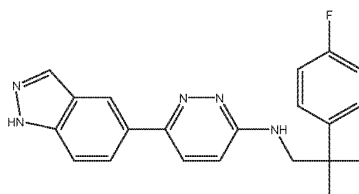
362.1 A

3-(6-([2-(4-fluorophenyl)-2-methylpropyl]amino)pyridazin-3-yl)benzenecarbonitrile



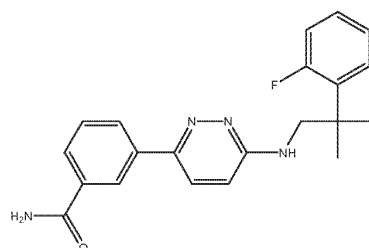
347.1 B

(6-(1H-indazol-5-yl)pyridazin-3-yl)[2-(4-fluorophenyl)-2-methylpropyl]amine



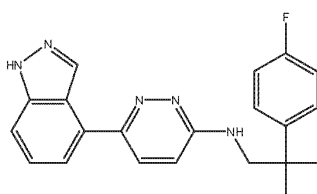
362.2 A

3-{6-[[2-(2-fluorophenyl)-2-methylpropyl]amino]pyridazin-3-yl}benzamide



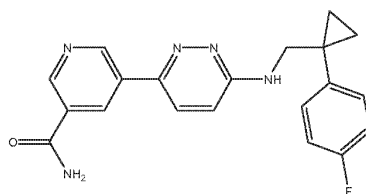
365.1 A

(6-(1H-indazol-4-yl)pyridazin-3-yl)[2-(4-fluorophenyl)-2-methylpropyl]amine



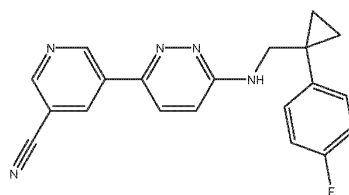
362.1 A

5-[6-(((4-fluorophenyl)cyclopropyl)methyl)amino]pyridazin-3-yl]pyridine-3-carboxamide



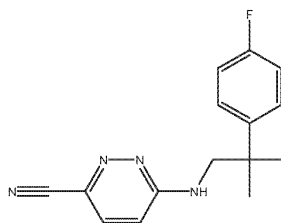
364.1 B

5-[6-(((4-fluorophenyl)cyclopropyl)methyl)amino]pyridazin-3-yl]pyridine-3-carbonitrile



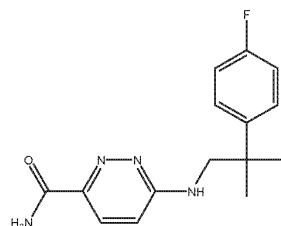
346.1 B

6-[[2-(4-fluorophenyl)-2-methylpropyl]amino]pyridazine-3-carbonitrile



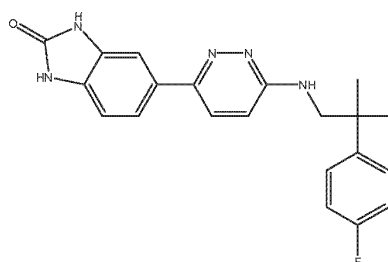
271.1 D

6-[[2-(4-fluorophenyl)-2-methylpropyl]amino]pyridazine-3-carboxamide



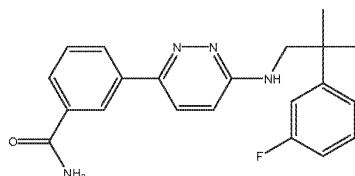
289.1 C

5-(6-{{2-(4-fluorophenyl)-2-methylpropyl}amino}pyridazin-3-yl)-3-hydrobenzimidazol-2-one



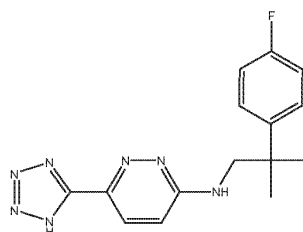
378.1 A

3-(6-{{2-(3-fluorophenyl)-2-methylpropyl}amino}pyridazin-3-yl)benzamide



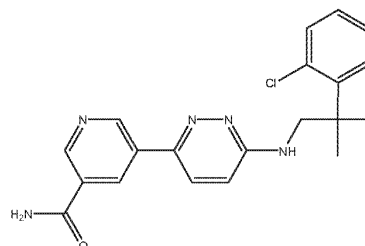
365.1 A

(6-(1H-1,2,3,4-tetraazol-5-yl)pyridazin-3-yl)[2-(4-fluorophenyl)-2-methylpropyl]amine



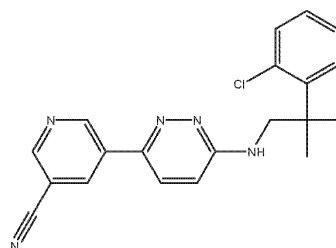
314.1 D

5-(6-{{2-(2-chlorophenyl)-2-methylpropyl}amino}pyridazin-3-yl)pyridine-3-carboxamide



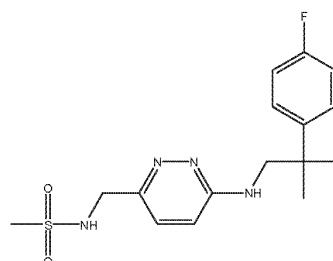
382.1 B

5-(6-{{2-(2-chlorophenyl)-2-methylpropyl}amino}pyridazin-3-yl)pyridine-3-carbonitrile



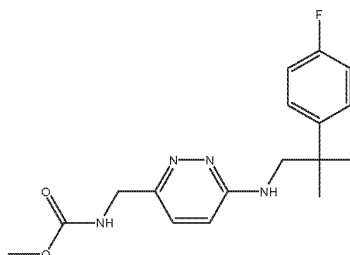
364.1 B

[(6-{{2-(4-fluorophenyl)-2-methylpropyl}amino}pyridazin-3-yl)methyl](methanesulfonyl)amine



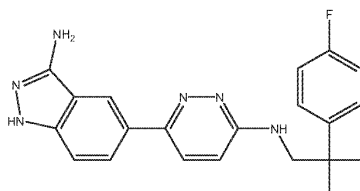
353.1 B

N-[(6-{[2-(4-fluorophenyl)-2-methylpropyl]amino}pyridazin-3-yl)methyl]methoxycarboxamide



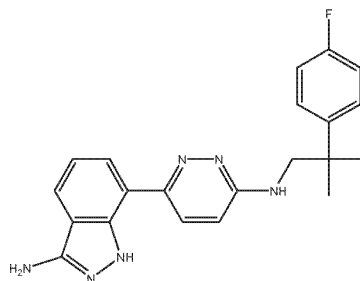
333.2 D

[6-(3-amino(1H-indazol-5-yl))pyridazin-3-yl][2-(4-fluorophenyl)-2-methylpropyl]amine



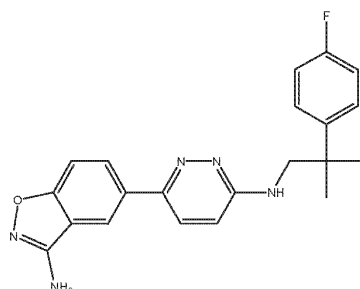
377.1 A

[6-(3-amino(1H-indazol-7-yl))pyridazin-3-yl][2-(4-fluorophenyl)-2-methylpropyl]amine



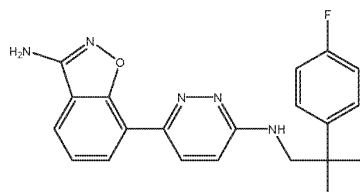
377.0 B

[6-(3-aminobenzo[3,4-d]isoxazol-5-yl)pyridazin-3-yl][2-(4-fluorophenyl)-2-methylpropyl]amine



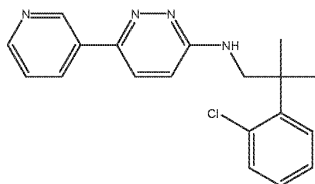
378.0 B

[6-(3-aminobenzo[d]isoxazol-7-yl)pyridazin-3-yl][2-(4-fluorophenyl)-2-methylpropyl]amine



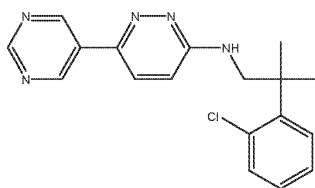
388.0 B

[2-(2-chlorophenyl)-2-methylpropyl](6-(3-pyridyl)pyridazin-3-yl)amine



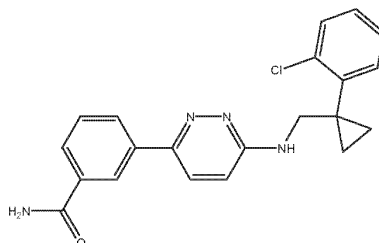
339.1 B

[2-(2-chlorophenyl)-2-methylpropyl](6-pyrimidin-5-ylpyridazin-3-yl)amine



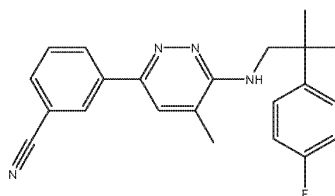
340.1 B

3-[6-([(2-chlorophenyl)cyclopropyl]methyl)amino]pyridazin-3-yl]benzamide



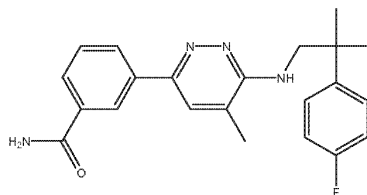
379.1 A

3-(6-{[2-(4-fluorophenyl)-2-methylpropyl]amino}-5-methylpyridazin-3-yl)benzenecarbonitrile



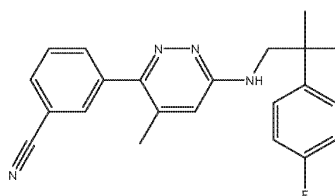
361.1 C

3-(6-{[2-(4-fluorophenyl)-2-methylpropyl]amino}-5-methylpyridazin-3-yl)benzamide



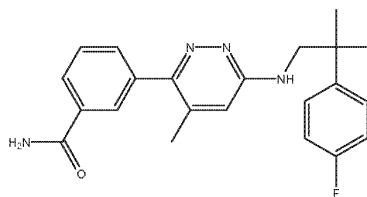
379.1 B

3-(6-{[2-(4-fluorophenyl)-2-methylpropyl]amino}-4-methylpyridazin-3-yl)benzenecarbonitrile



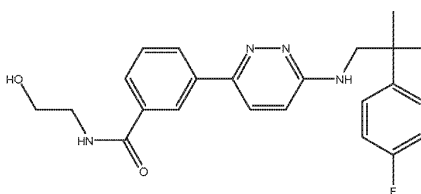
361.1 B

3-(6-{[2-(4-fluorophenyl)-2-methylpropyl]amino}-4-methylpyridazin-3-yl)benzamide



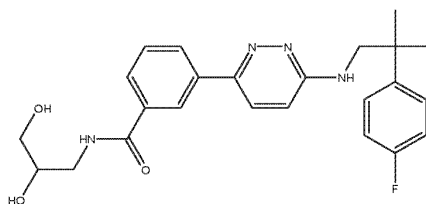
379.1 B

[3-(6-{[2-(4-fluorophenyl)-2-methylpropyl]amino}pyridazin-3-yl)phenyl]-N-(2-hydroxyethyl)carboxamide



409.1 B

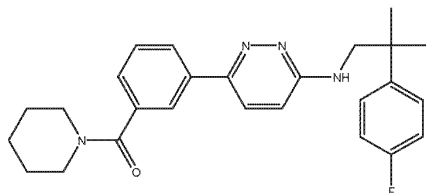
N-(2,3-dihydroxypropyl)[3-(6-{[2-(4-fluorophenyl)-2-methylpropyl]amino}pyridazin-3-yl)phenyl]carboxamide



439.1

B

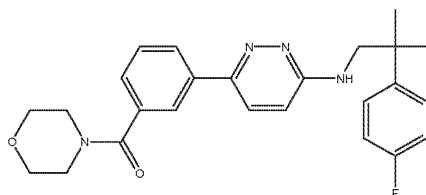
3-(6-{[2-(4-fluorophenyl)-2-methylpropyl]amino}pyridazin-3-yl)phenyl piperidyl ketone



433.2

B

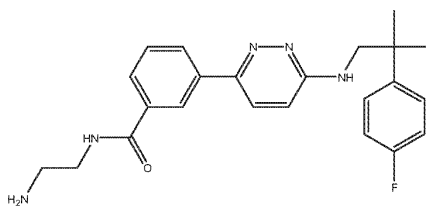
3-(6-{[2-(4-fluorophenyl)-2-methylpropyl]amino}pyridazin-3-yl)phenyl morpholin-4-yl ketone



435.1

B

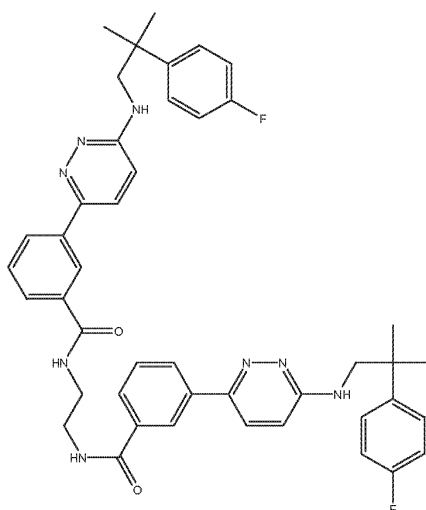
N-(2-aminoethyl)[3-(6-{[2-(4-fluorophenyl)-2-methylpropyl]amino}pyridazin-3-yl)phenyl]carboxamide



408.2

A

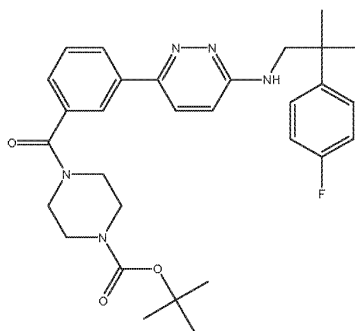
[3-(6-{[2-(4-fluorophenyl)-2-methylpropyl]amino}pyridazin-3-yl)phenyl]-N-(2-{[3-(6-{[2-(4-fluorophenyl)-2-methylpropyl]amino}pyridazin-3-yl)phenyl]carbonylamino}ethyl)carboxamide



755.3

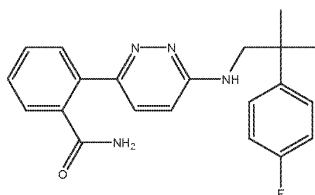
B

tert-butyl 4-([3-(6-{[2-(4-fluorophenyl)-2-methylpropyl]amino}pyridazin-3-yl)phenyl]carbonyl)piperazinecarboxylate



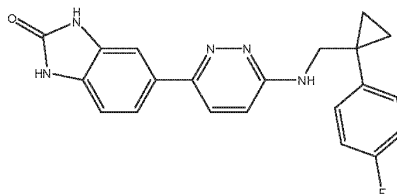
534.2 B

2-(6-{[2-(4-fluorophenyl)-2-methylpropyl]amino}pyridazin-3-yl)benzamide



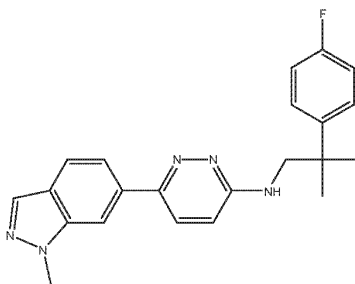
365.0 B

5-[6-({[(4-fluorophenyl)cyclopropyl]methyl}amino)pyridazin-3-yl]-3-hydrobenzimidazol-2-one



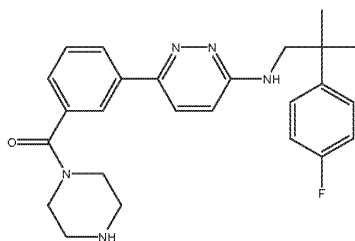
376.1 A

[2-(4-fluorophenyl)-2-methylpropyl][6-(1-methyl(1H-indazol-6-yl))pyridazin-3-yl]amine



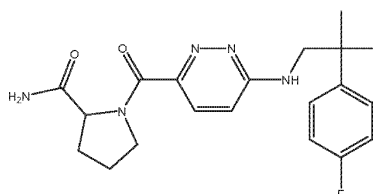
376.2 B

3-(6-{[2-(4-fluorophenyl)-2-methylpropyl]amino}pyridazin-3-yl)phenyl piperazinyl ketone



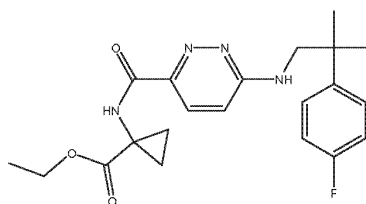
434.2 B

1-[(6-{[2-(4-fluorophenyl)-2-methylpropyl]amino}pyridazin-3-yl)carbonyl]pyrrolidine-2-carboxamide



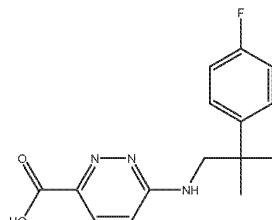
386.1 D

ethyl 1-[(6-{[2-(4-fluorophenyl)-2-methylpropyl]amino}pyridazin-3-yl)carbonylamino]cyclopropanecarboxylate



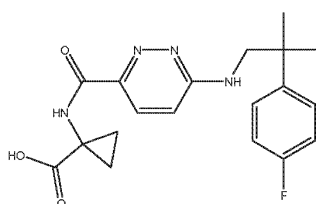
401.1 D

6-{[2-(4-fluorophenyl)-2-methylpropyl]amino}pyridazine-3-carboxylic acid



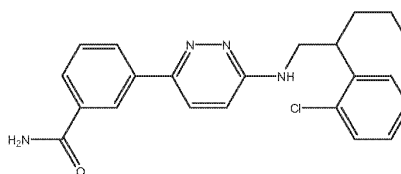
290.1 D

1-[(6-{[2-(4-fluorophenyl)-2-methylpropyl]amino}pyridazin-3-yl)carbonylamino]cyclopropanecarboxylic acid



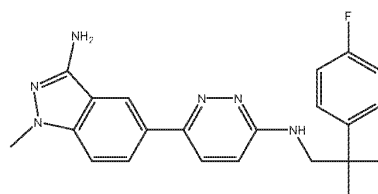
373.1 D

3-(6-{[2-(2-chlorophenyl)pentyl]amino}pyridazin-3-yl)benzamide



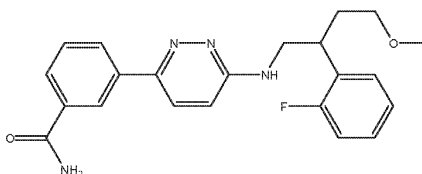
395.1 B

[6-(3-amino-1-methyl(1H-indazol-5-yl))pyridazin-3-yl][2-(4-fluorophenyl)-2-methylpropyl]amine



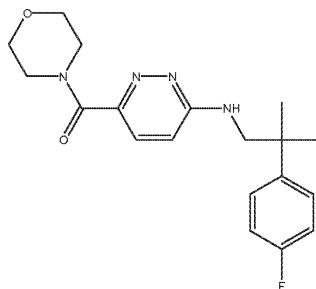
391.0 B

3-(6-{[2-(2-fluorophenyl)-4-methoxybutyl]amino}pyridazin-3-yl)benzamide



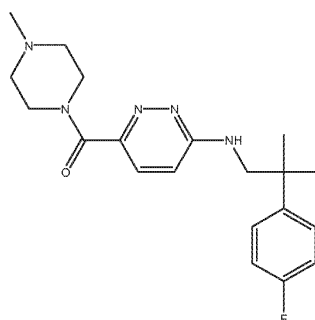
395.1 D

6-{[2-(4-fluorophenyl)-2-methylpropyl]amino}pyridazin-3-yl morpholin-4-yl ketone



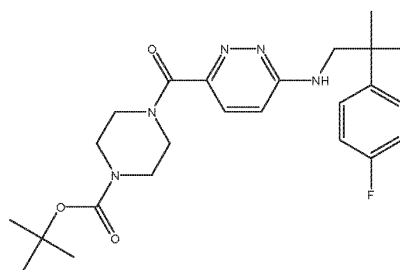
359.1 D

6-[[2-(4-fluorophenyl)-2-methylpropyl]amino]pyridazin-3-yl 4-methylpiperazinyl ketone



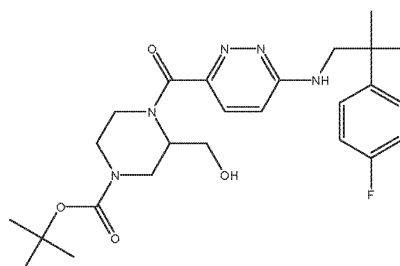
372.1 D

tert-butyl 4-[[6-[[2-(4-fluorophenyl)-2-methylpropyl]amino]pyridazin-3-yl]carbonyl]piperazinecarboxylate



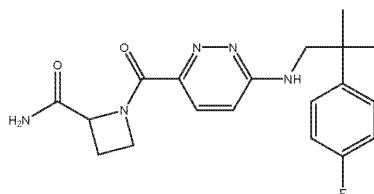
458.2 D

tert-butyl 4-[[6-[[2-(4-fluorophenyl)-2-methylpropyl]amino]pyridazin-3-yl]carbonyl]-3-(hydroxymethyl)piperazinecarboxylate



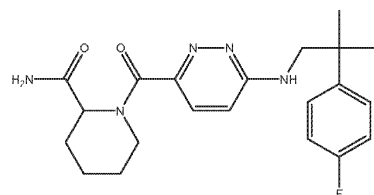
488.2 D

1-[[6-[[2-(4-fluorophenyl)-2-methylpropyl]amino]pyridazin-3-yl]carbonyl]azetidine-2-carboxamide



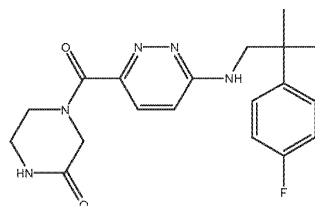
372.1 D

1-[[6-[[2-(4-fluorophenyl)-2-methylpropyl]amino]pyridazin-3-yl]carbonyl]piperidine-2-carboxamide



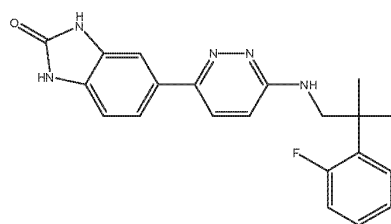
400.1 D

4-[[6-[[2-(4-fluorophenyl)-2-methylpropyl]amino]pyridazin-3-yl]carbonyl]piperazin-2-one



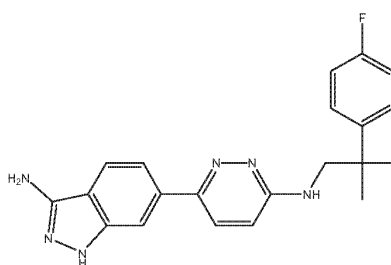
372.1 D

5-(6-{{2-(2-fluorophenyl)-2-methylpropyl}amino}pyridazin-3-yl)-3-hydrobenzimidazol-2-one



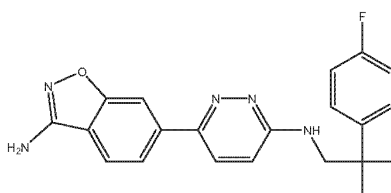
378.2 A

[6-(3-amino(1H-indazol-6-yl))pyridazin-3-yl][2-(4-fluorophenyl)-2-methylpropyl]amine



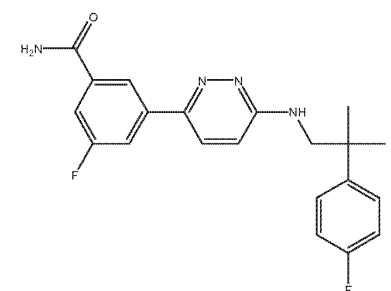
377.0 A

[6-(3-aminobenzo[d]isoxazol-6-yl)pyridazin-3-yl][2-(4-fluorophenyl)-2-methylpropyl]amine



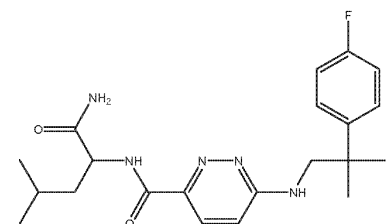
378.0 A

3-fluoro-5-(6-{{2-(4-fluorophenyl)-2-methylpropyl}amino}pyridazin-3-yl)benzamide



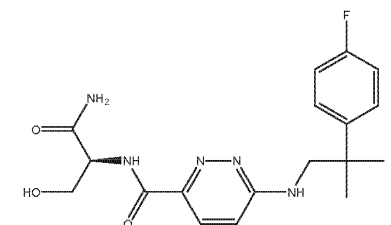
383.1 B

N-(1-carbamoyl-3-methylbutyl)(6-{{2-(4-fluorophenyl)-2-methylpropyl}amino}pyridazin-3-yl)carboxamide



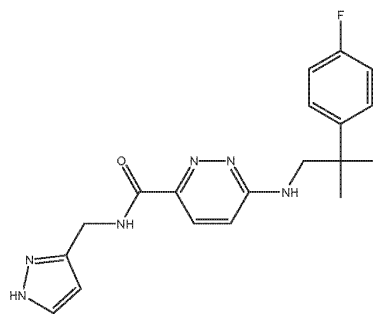
402.2 C

N-((1S)-1-carbamoyl-2-hydroxyethyl)(6-{{2-(4-fluorophenyl)-2-methylpropyl}amino}pyridazin-3-yl)carboxamide



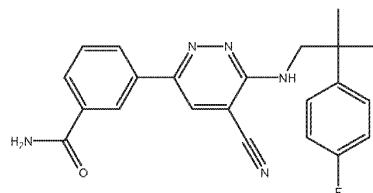
376.1 D

(6-([2-(4-fluorophenyl)-2-methylpropyl]amino)pyridazin-3-yl)-N-(pyrazol-3-ylmethyl)carboxamide



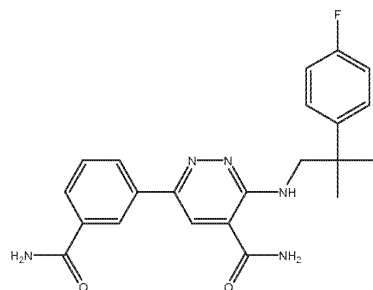
369.1 C

3-(5-cyano-6-([2-(4-fluorophenyl)-2-methylpropyl]amino)pyridazin-3-yl)benzamide



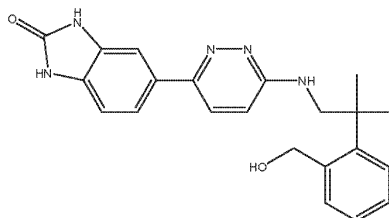
390.2 C

6-(3-carbamoylphenyl)-3-([2-(4-fluorophenyl)-2-methylpropyl]amino)pyridazine-4-carboxamide



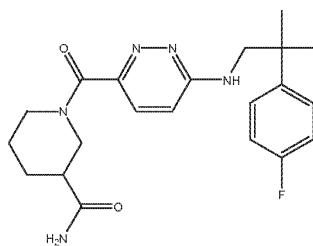
408.2 B

5-[6-([2-(2-(hydroxymethyl)phenyl)-2-methylpropyl]amino)pyridazin-3-yl]-3-hydrobenzimidazol-2-one



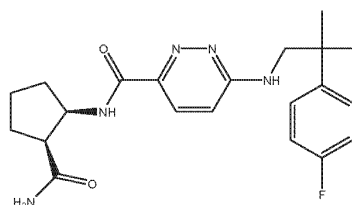
390.1 B

1-([6-([2-(4-fluorophenyl)-2-methylpropyl]amino)pyridazin-3-yl]carbonyl)piperidine-3-carboxamide



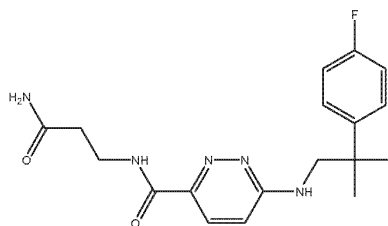
400.1 D

(2S,1R)-2-([6-([2-(4-fluorophenyl)-2-methylpropyl]amino)pyridazin-3-yl]carbonylamino)cyclopentanecarboxamide



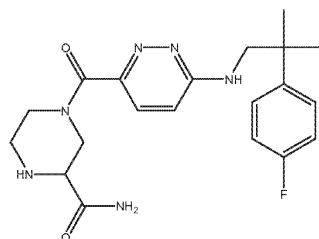
400.1 D

N-(2-carbamoyl-ethyl)(6-([2-(4-fluorophenyl)-2-methylpropyl]amino)pyridazin-3-yl)carboxamide



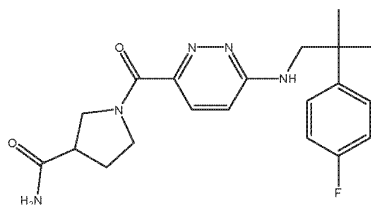
360.1 D

4-[(6-([2-(4-fluorophenyl)-2-methylpropyl]amino)pyridazin-3-yl)carbonyl]piperazine-2-carboxamide



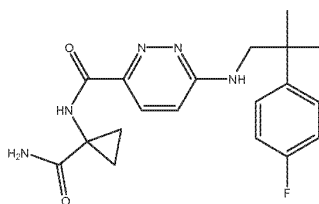
401.1 D

1-[(6-([2-(4-fluorophenyl)-2-methylpropyl]amino)pyridazin-3-yl)carbonyl]pyrrolidine-3-carboxamide



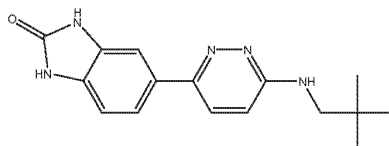
386.1 D

1-[(6-([2-(4-fluorophenyl)-2-methylpropyl]amino)pyridazin-3-yl)carbonylamino]cyclopropanecarboxamide



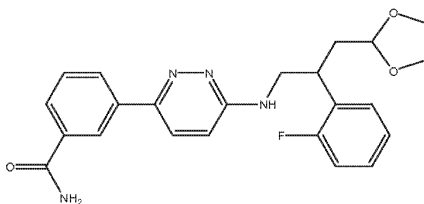
372.1 D

5-{6-[(2,2-dimethylpropyl)amino]pyridazin-3-yl}-3-hydrobenzimidazol-2-one



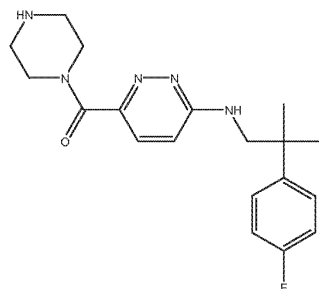
298.2 D

3-(6-([3-(1,3-dioxolan-2-yl)-2-(2-fluorophenyl)propyl]amino)pyridazin-3-yl)benzamide



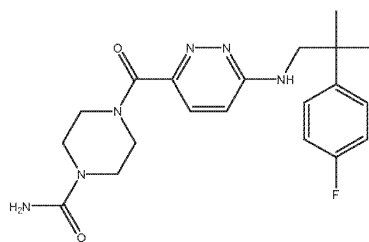
423.1 D

6-([2-(4-fluorophenyl)-2-methylpropyl]amino)pyridazin-3-yl piperazinyl ketone



358.0 D

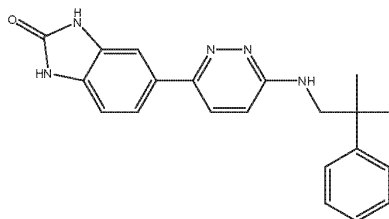
4-[(6-{[2-(4-fluorophenyl)-2-methylpropyl]amino}pyridazin-3-yl)carbonyl]piperazinecarboxamide



401.0

D

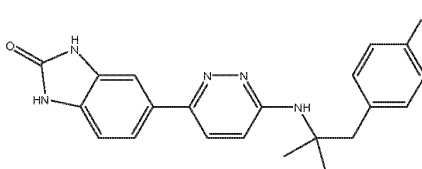
5-{6-[(2-methyl-2-phenylpropyl)amino]pyridazin-3-yl}-3-hydrobenzimidazol-2-one



360.1

A

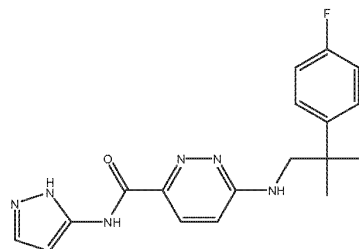
5-{6-[(2-(4-fluorophenyl)-tert-butyl)amino]pyridazin-3-yl}-3-hydrobenzimidazol-2-one



378.1

D

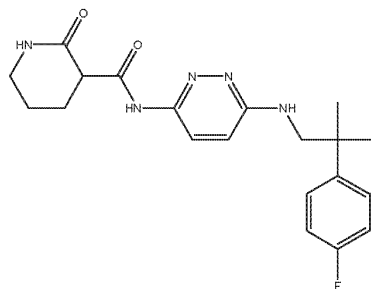
(6-{[2-(4-fluorophenyl)-2-methylpropyl]amino}pyridazin-3-yl)-N-pyrazol-5-ylcarboxamide



355.1

D

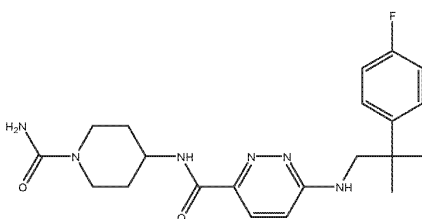
(6-{[2-(4-fluorophenyl)-2-methylpropyl]amino}pyridazin-3-yl)-N-(2-oxo(3-piperidyl))carboxamide



386.1

D

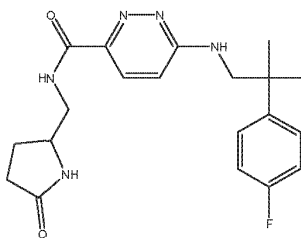
4-[(6-{[2-(4-fluorophenyl)-2-methylpropyl]amino}pyridazin-3-yl)carbonylamino]piperidinecarboxamide



401.1

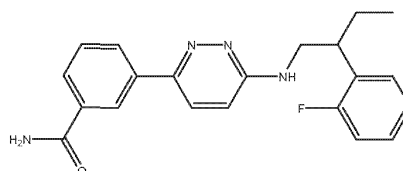
D

(6-([2-(4-fluorophenyl)-2-methylpropyl]amino}pyridazin-3-yl)-N-[(5-oxopyrrolidin-2-yl)methyl]carboxamide



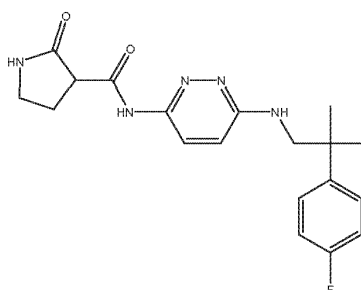
386.2 C

3-(6-([2-(2-fluorophenyl)butyl]amino}pyridazin-3-yl)benzamide



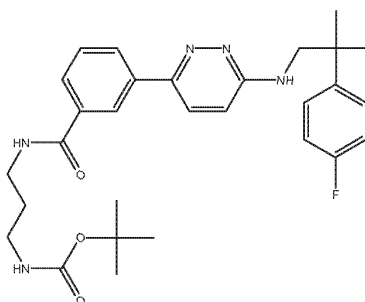
365.1 B

(6-([2-(4-fluorophenyl)-2-methylpropyl]amino}pyridazin-3-yl)-N-(2-oxopyrrolidin-3-yl)carboxamide



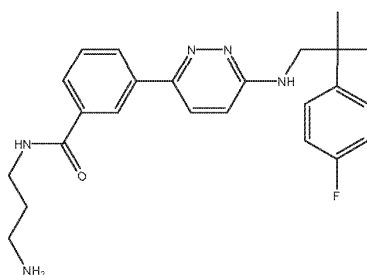
372.1 C

N-(3-((tert-butoxy)carbonylamino)propyl)[3-(6-([2-(4-fluorophenyl)-2-methylpropyl]amino}pyridazin-3-yl)phenyl]carboxamide



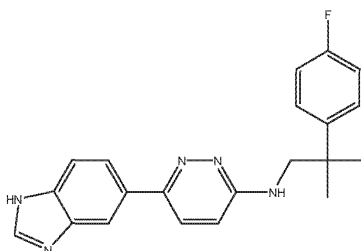
522.2 B

N-(3-aminopropyl)[3-(6-([2-(4-fluorophenyl)-2-methylpropyl]amino}pyridazin-3-yl)phenyl]carboxamide



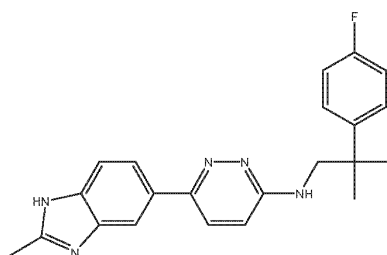
422.2 B

(6-benzimidazol-5-ylpyridazin-3-yl)[2-(4-fluorophenyl)-2-methylpropyl]amine



362.2 A

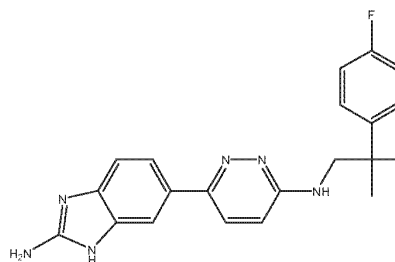
[2-(4-fluorophenyl)-2-methylpropyl][6-(2-methylbenzimidazol-5-yl)pyridazin-3-yl]amine



376.2

B

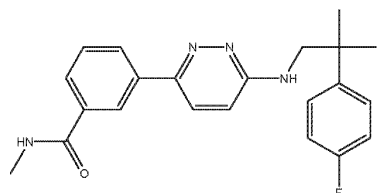
[6-(2-aminobenzimidazol-5-yl)pyridazin-3-yl][2-(4-fluorophenyl)-2-methylpropyl]amine



377.2

A

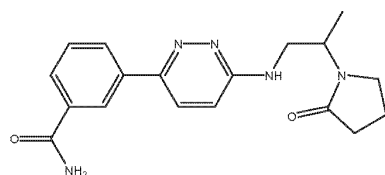
[3-(6-([2-(4-fluorophenyl)-2-methylpropyl]amino)pyridazin-3-yl)phenyl]-N-methylcarboxamide



379.1

B

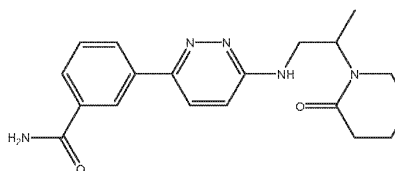
3-(6-([2-(2-oxopyrrolidinyl)propyl]amino)pyridazin-3-yl)benzamide



340.1

D

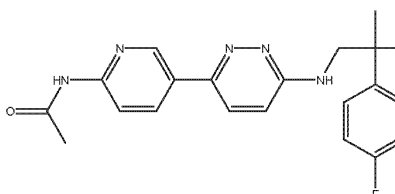
3-(6-([2-(2-oxopiperidyl)propyl]amino)pyridazin-3-yl)benzamide



354.1

D

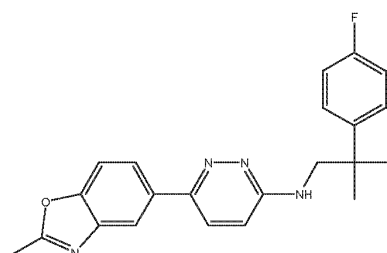
N-[5-(6-([2-(4-fluorophenyl)-2-methylpropyl]amino)pyridazin-3-yl)-2-pyridyl]acetamide



380.2

B

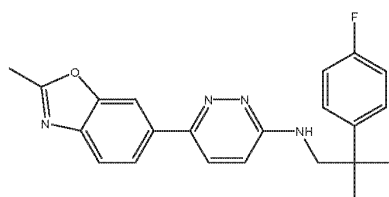
[2-(4-fluorophenyl)-2-methylpropyl][6-(2-methylbenzoxazol-5-yl)pyridazin-3-yl]amine



377.2

B

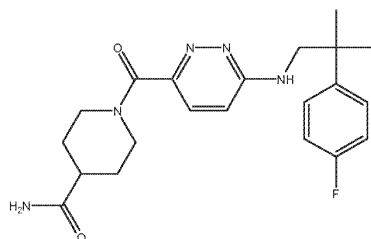
[2-(4-fluorophenyl)-2-methylpropyl][6-(2-methylbenzoxazol-6-yl)pyridazin-3-yl]amine



377.2

B

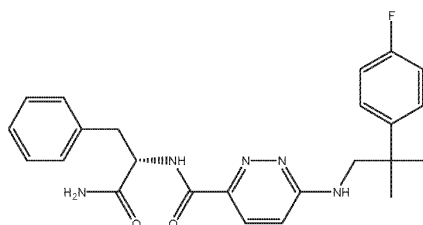
1-[(6-{[2-(4-fluorophenyl)-2-methylpropyl]amino}pyridazin-3-yl)carbonyl]piperidine-4-carboxamide



400.2

D

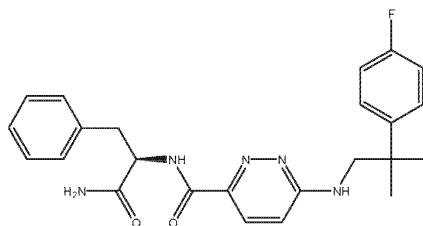
N-((1S)-1-carbamoyl-2-phenylethyl)(6-{[2-(4-fluorophenyl)-2-methylpropyl]amino}pyridazin-3-yl)carboxamide



436.1

C

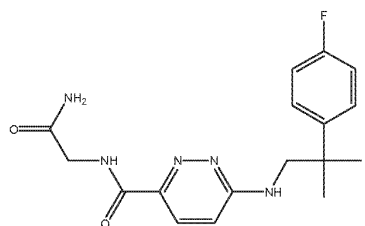
N-((1R)-1-carbamoyl-2-phenylethyl)(6-{[2-(4-fluorophenyl)-2-methylpropyl]amino}pyridazin-3-yl)carboxamide



436.1

C

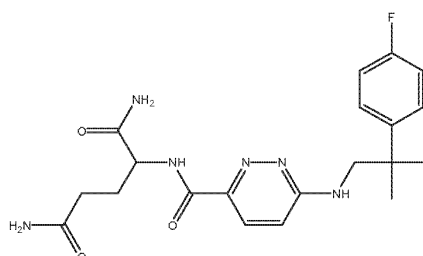
N-(carbamoylmethyl)(6-{[2-(4-fluorophenyl)-2-methylpropyl]amino}pyridazin-3-yl)carboxamide



346.1

D

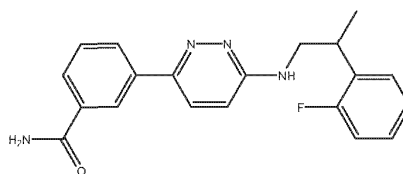
N-(1,3-dicarbamoylpropyl)(6-{[2-(4-fluorophenyl)-2-methylpropyl]amino}pyridazin-3-yl)carboxamide



417.1

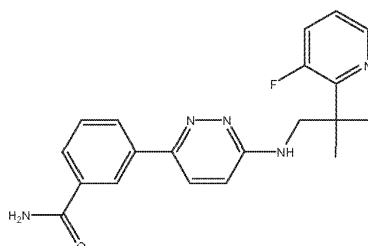
D

3-(6-{{2-(2-fluorophenyl)propyl}amino}pyridazin-3-yl)benzamide



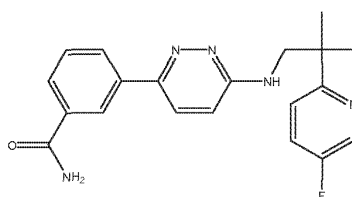
351.1 B

3-(6-{{2-(3-fluoro(2-pyridyl))-2-methylpropyl}amino}pyridazin-3-yl)benzamide



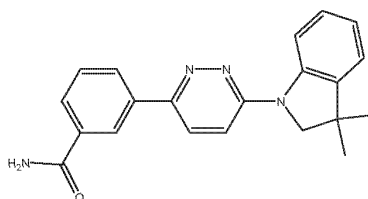
366.1 B

3-(6-{{2-(5-fluoro(2-pyridyl))-2-methylpropyl}amino}pyridazin-3-yl)benzamide



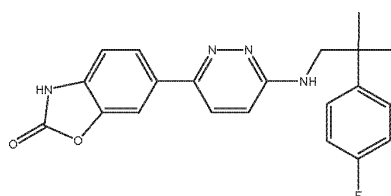
366.1 C

3-[6-(3,3-dimethylindoliny)]pyridazin-3-yl]benzamide



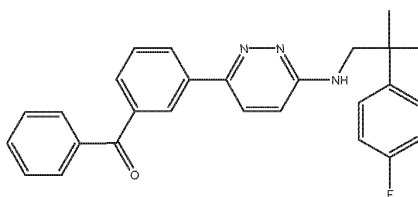
345.2 D

6-(6-{{2-(4-fluorophenyl)-2-methylpropyl}amino}pyridazin-3-yl)-3-hydrobenzoxazol-2-one



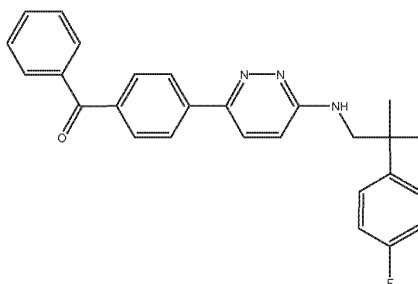
379.2 A

3-(6-{{2-(4-fluorophenyl)-2-methylpropyl}amino}pyridazin-3-yl)phenyl phenyl ketone



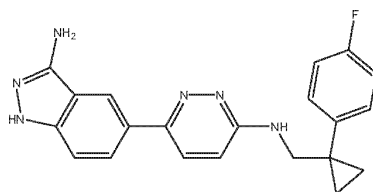
426.2 D

4-(6-{{2-(4-fluorophenyl)-2-methylpropyl}amino}pyridazin-3-yl)phenyl phenyl ketone



426.2 D

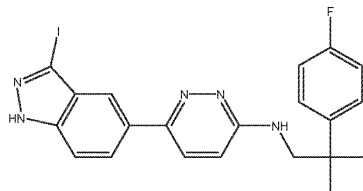
[6-(3-amino(1H-indazol-5-yl))pyridazin-3-yl]{{(4-fluorophenyl)cyclopropyl)methyl}amine



375.3

A

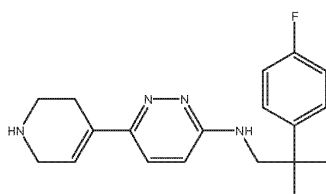
[2-(4-fluorophenyl)-2-methylpropyl][6-(3-iodo(1H-indazol-5-yl))pyridazin-3-yl]amine



488.0

B

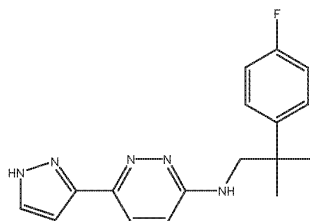
[2-(4-fluorophenyl)-2-methylpropyl](6-(4-1,2,5,6-tetrahydropyridyl)pyridazin-3-yl)amine



327.2

B

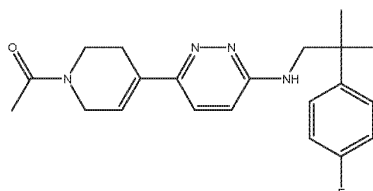
[2-(4-fluorophenyl)-2-methylpropyl](6-pyrazol-3-ylpyridazin-3-yl)amine



312.1

B

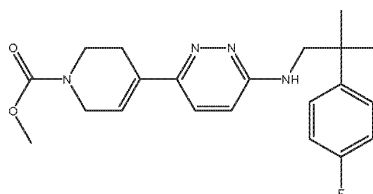
1-acetyl-4-(6-{{2-(4-fluorophenyl)-2-methylpropyl}amino}pyridazin-3-yl)-1,2,5,6-tetrahydropyridine



369.1

D

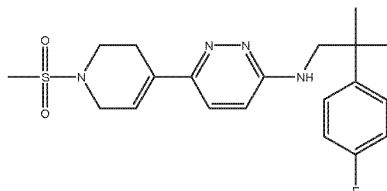
methyl 4-(6-{{2-(4-fluorophenyl)-2-methylpropyl}amino}pyridazin-3-yl)-1,2,5,6-tetrahydropyridinecarboxylate



385.1

C

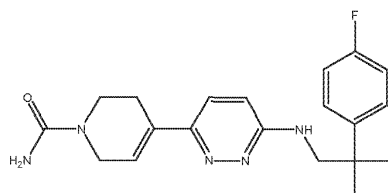
4-(6-{{2-(4-fluorophenyl)-2-methylpropyl}amino}pyridazin-3-yl)-1-(methylsulfonyl)-1,2,5,6-tetrahydropyridine



405.1

B

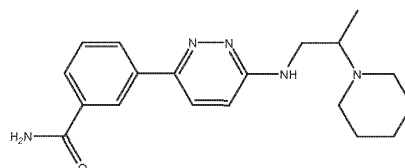
4-(6-([2-(4-fluorophenyl)-2-methylpropyl]amino)pyridazin-3-yl)-1,2,5,6-tetrahydropyridinecarboxamide



370.1

B

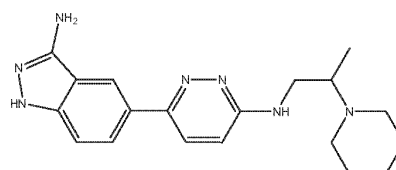
3-{6-[(2-piperidylpropyl)amino]pyridazin-3-yl}benzamide



340.1

D

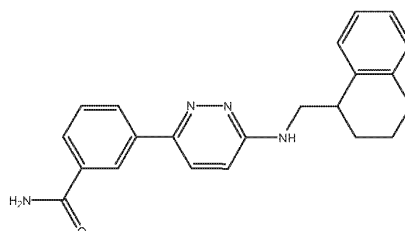
[6-(3-amino(1H-indazol-5-yl))pyridazin-3-yl](2-piperidylpropyl)amine



352.2

D

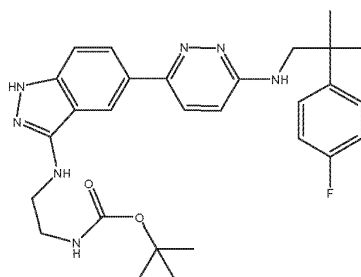
3-{6-[(1,2,3,4-tetrahydronaphthylmethyl)amino]pyridazin-3-yl}benzamide



359.0

B

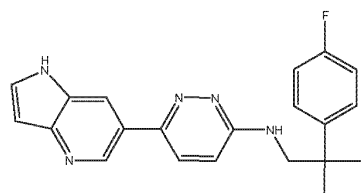
(tert-butoxy)-N-(2-{[5-(6-([2-(4-fluorophenyl)-2-methylpropyl]amino)pyridazin-3-yl)(1H-indazol-3-yl)]amino}ethyl)carboxamide



520.2

A

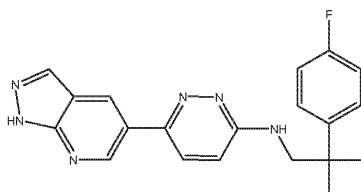
[2-(4-fluorophenyl)-2-methylpropyl](6-pyrrolo[3,2-b]pyridin-6-ylpyridazin-3-yl)amine



362.2

A

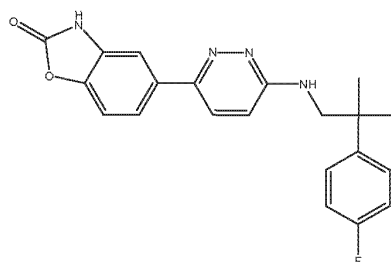
[2-(4-fluorophenyl)-2-methylpropyl](6-pyrazolo[5,4-b]pyridin-5-ylpyridazin-3-yl)amine



363.2

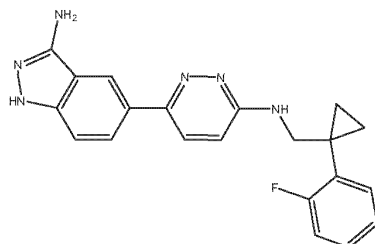
B

5-(6-{{2-(4-fluorophenyl)-2-methylpropyl}amino}pyridazin-3-yl)-3-hydrobenzoxazol-2-one



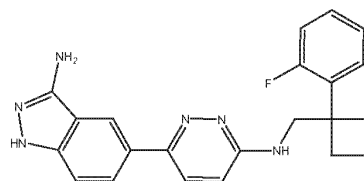
379.2 B

[6-(3-amino(1H-indazol-5-yl)pyridazin-3-yl)][(2-fluorophenyl)cyclopropyl)methyl]amine



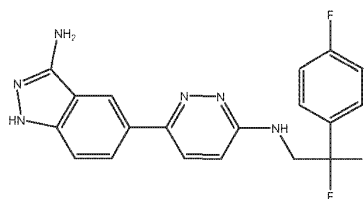
375.1 A

[6-(3-amino(1H-indazol-5-yl)pyridazin-3-yl)][(2-fluorophenyl)cyclobutyl)methyl]amine



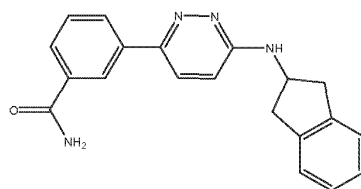
389.1 A

[6-(3-amino(1H-indazol-5-yl)pyridazin-3-yl)][2,2-difluoro-2-(4-fluorophenyl)ethyl]amine



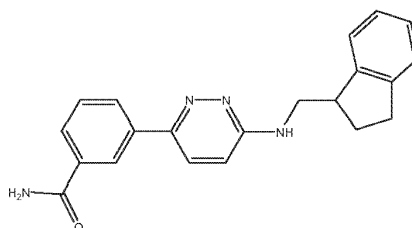
385.0 B

3-[6-(indan-2-ylamino)pyridazin-3-yl]benzamide



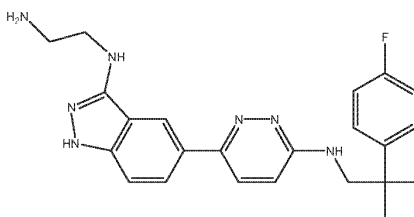
331.0 D

3-{6-[(indanylmethyl)amino]pyridazin-3-yl}benzamide



345.0 B

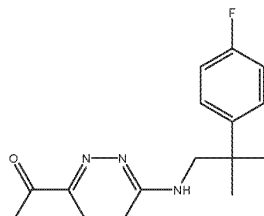
(6-{3-[(2-aminoethyl)amino](1H-indazol-5-yl)}pyridazin-3-yl)[2-(4-fluorophenyl)-2-methylpropyl]amine



420.1

A

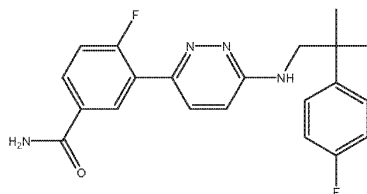
1-(6-{[2-(4-fluorophenyl)-2-methylpropyl]amino}pyridazin-3-yl)ethan-1-one



288.1

D

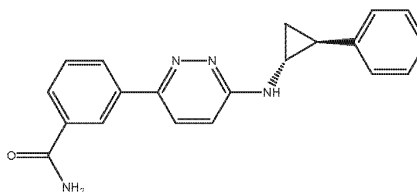
4-fluoro-3-(6-{[2-(4-fluorophenyl)-2-methylpropyl]amino}pyridazin-3-yl)benzamide



283.1

A

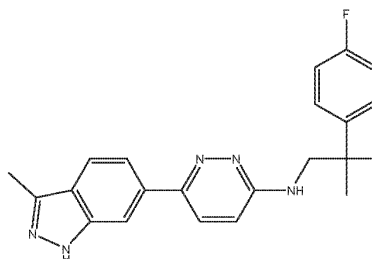
3-{6-[(2S,1R)-2-phenylcyclopropyl]amino}pyridazin-3-yl}benzamide



331.0

D

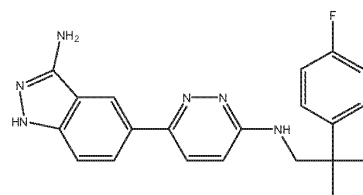
[2-(4-fluorophenyl)-2-methylpropyl][6-(3-methyl(1H-indazol-6-yl))pyridazin-3-yl]amine



376.0

B

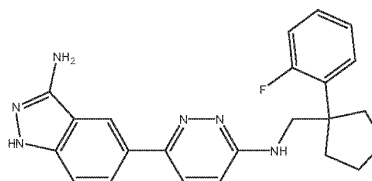
[6-(3-amino(1H-indazol-5-yl))pyridazin-3-yl][[(4-fluorophenyl)cyclobutyl]methyl]amine



389.1

A

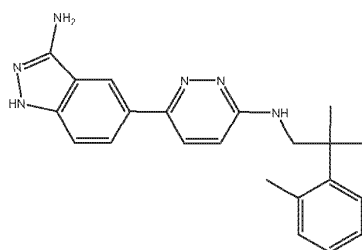
[6-(3-amino(1H-indazol-5-yl))pyridazin-3-yl][[(2-fluorophenyl)cyclopentyl]methyl]amine



403.1

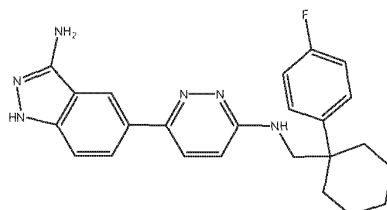
A

[6-(3-amino(1H-indazol-5-yl))pyridazin-3-yl][2-methyl-2-(2-methylphenyl)propyl]amine



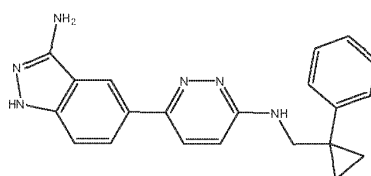
373.2 A

[6-(3-amino(1H-indazol-5-yl))pyridazin-3-yl][[(4-fluorophenyl)cyclohexyl]methyl]amine



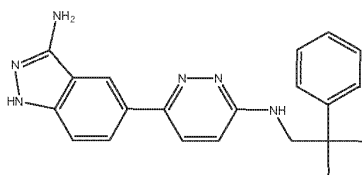
417.2 A

[6-(3-amino(1H-indazol-5-yl))pyridazin-3-yl][[(phenylcyclopropyl)methyl]amine



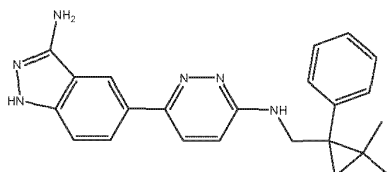
357.1 A

[6-(3-amino(1H-indazol-5-yl))pyridazin-3-yl][[(phenylcyclobutyl)methyl]amine



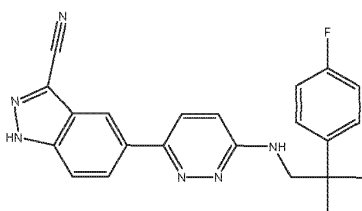
371.1 A

[6-(3-amino(1H-indazol-5-yl))pyridazin-3-yl][(2,2-dimethyl-1-phenylcyclopropyl)methyl]amine



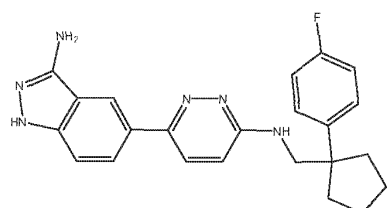
385.2 A

5-(6-[[2-(4-fluorophenyl)-2-methylpropyl]amino]pyridazin-3-yl)-1H-indazole-3-carbonitrile



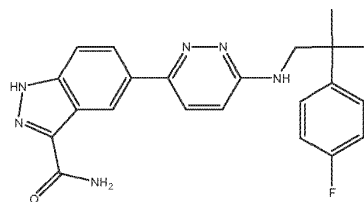
387.1 D

[6-(3-amino(1H-indazol-5-yl))pyridazin-3-yl][[(4-fluorophenyl)cyclopentyl]methyl]amine



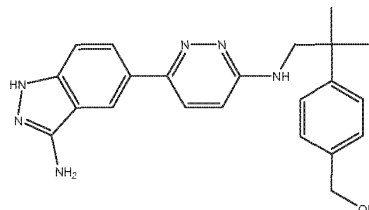
403.1 A

5-(6-{{2-(4-fluorophenyl)-2-methylpropyl}amino}pyridazin-3-yl)-1H-indazole-3-carboxamide



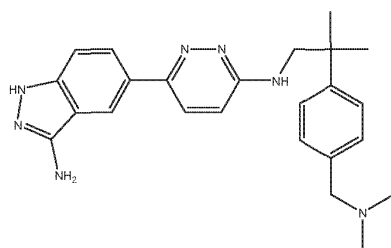
405.1 A

[4-(2-{{6-(3-amino(1H-indazol-5-yl))pyridazin-3-yl}amino}-tert-butyl)phenyl]methan-1-ol



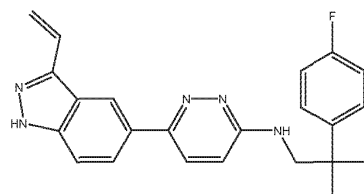
389.2 D

{{4-(2-{{6-(3-amino(1H-indazol-5-yl))pyridazin-3-yl}amino}-tert-butyl)phenyl}methyl}dimethylamine



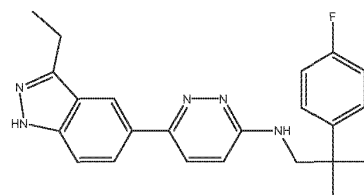
416.2 D

[2-(4-fluorophenyl)-2-methylpropyl][6-(3-vinyl(1H-indazol-5-yl))pyridazin-3-yl]amine



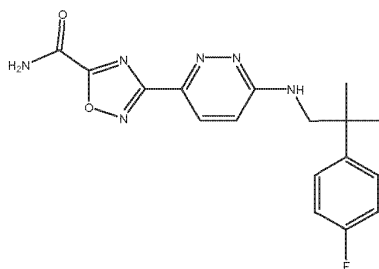
388.1 A

[6-(3-ethyl(1H-indazol-5-yl))pyridazin-3-yl][2-(4-fluorophenyl)-2-methylpropyl]amine



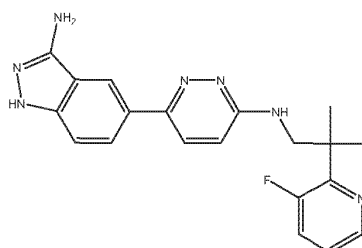
390.2 B

3-(6-{{2-(4-fluorophenyl)-2-methylpropyl}amino}pyridazin-3-yl)-1,2,4-oxadiazole-5-carboxamide



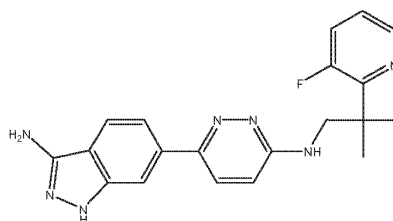
357.1 C

[6-(3-amino(1H-indazol-5-yl))pyridazin-3-yl][2-(3-fluoro(2-pyridyl))-2-methylpropyl]amine



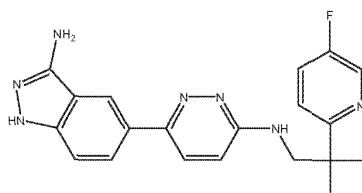
378.1 B

[6-(3-amino(1H-indazol-6-yl))pyridazin-3-yl][2-(3-fluoro(2-pyridyl))-2-methylpropyl]amine



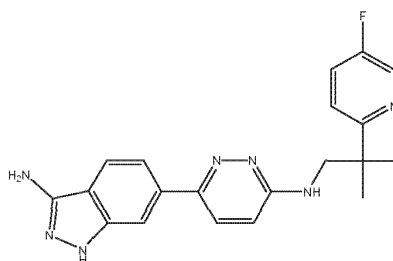
378.1 B

[6-(3-amino(1H-indazol-5-yl))pyridazin-3-yl][2-(5-fluoro(2-pyridyl))-2-methylpropyl]amine



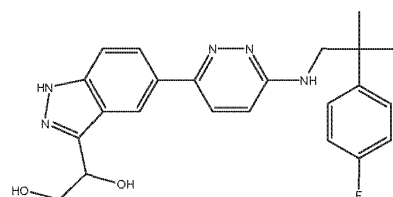
378.1 B

[6-(3-amino(1H-indazol-6-yl))pyridazin-3-yl][2-(5-fluoro(2-pyridyl))-2-methylpropyl]amine



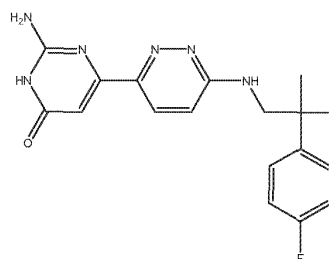
378.1 C

1-[5-(6-([2-(4-fluorophenyl)-2-methylpropyl]amino)pyridazin-3-yl)-1H-indazol-3-yl]ethane-1,2-diol



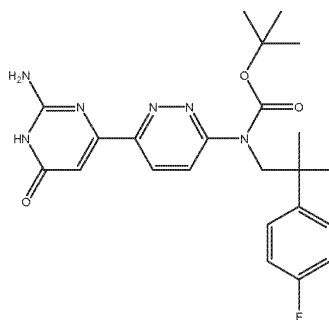
422.1 B

2-amino-6-(6-([2-(4-fluorophenyl)-2-methylpropyl]amino)pyridazin-3-yl)-3-hydropyrimidin-4-one



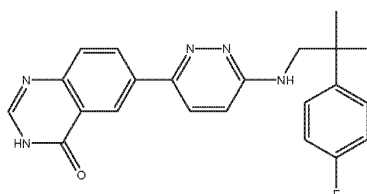
355.1 B

N-[6-(2-amino-6-oxohydropyrimidin-4-yl)pyridazin-3-yl](tert-butoxy)-N-[2-(4-fluorophenyl)-2-methylpropyl]carboxamide



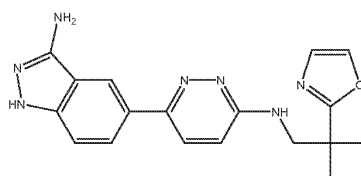
455.1 B

6-(6-{{2-(4-fluorophenyl)-2-methylpropyl}amino}pyridazin-3-yl)-3-hydroquinazolin-4-one



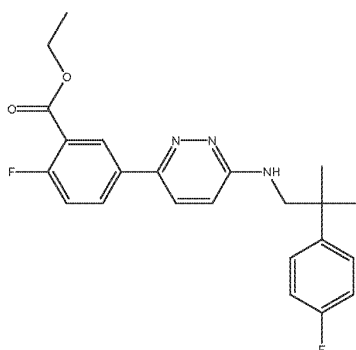
390.1 B

[6-(3-amino(1H-indazol-5-yl))pyridazin-3-yl](2-methyl-2-(1,3-oxazol-2-yl)propyl)amine



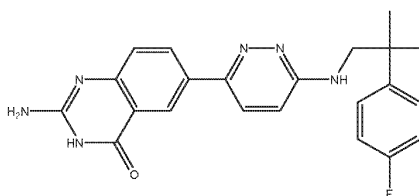
350.3 D

ethyl 2-fluoro-5-(6-{{2-(4-fluorophenyl)-2-methylpropyl}amino}pyridazin-3-yl)benzoate



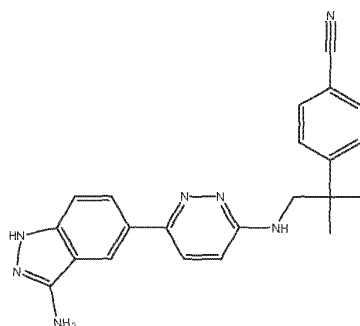
412.2 B

2-amino-6-(6-{{2-(4-fluorophenyl)-2-methylpropyl}amino}pyridazin-3-yl)-3-hydroquinazolin-4-one



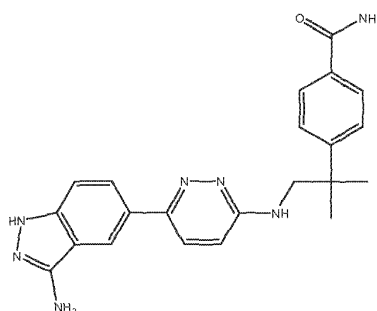
405.1 A

4-(2-[[6-(3-amino(1H-indazol-5-yl))pyridazin-3-yl]amino]-tert-butyl)benzenecarbonitrile



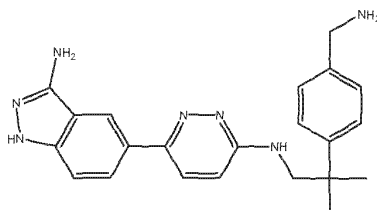
384.1 A

4-(2-[[6-(3-amino(1H-indazol-5-yl))pyridazin-3-yl]amino]-tert-butyl)benzamide



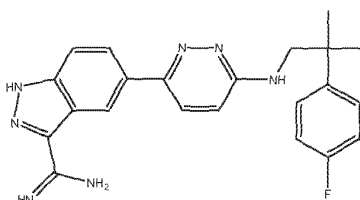
402.2 D

[6-(3-amino(1H-indazol-5-yl))pyridazin-3-yl]{2-[4-(aminomethyl)phenyl]-2-methylpropyl}amine



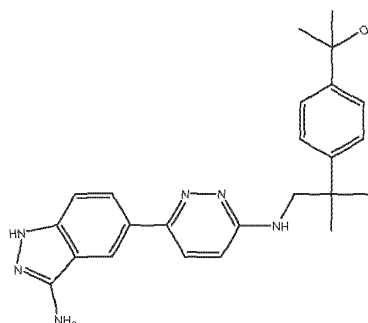
388.2 D

5-(6-[[2-(4-fluorophenyl)-2-methylpropyl]amino]pyridazin-3-yl)-1H-indazole-3-carboxamidine



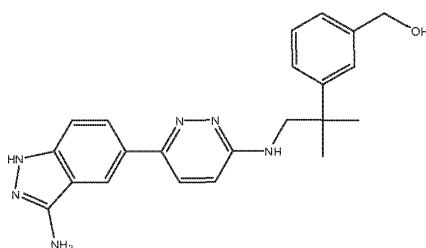
404.1 B

2-[4-(2-[[6-(3-amino(1H-indazol-5-yl))pyridazin-3-yl]amino]-tert-butyl)phenyl]propan-2-ol



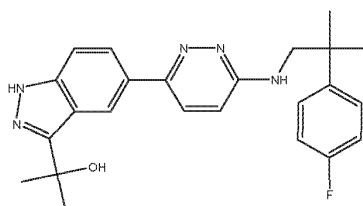
417.2 D

[3-(2-{{6-(3-amino(1H-indazol-5-yl))pyridazin-3-yl}amino}-tert-butyl)phenyl]methan-1-ol



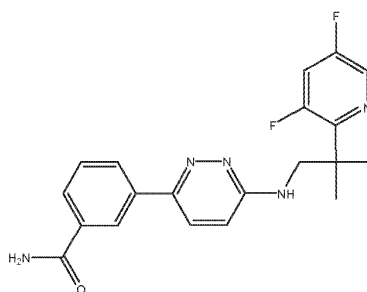
389.2 B

2-[5-(6-{{2-(4-fluorophenyl)-2-methylpropyl}amino}pyridazin-3-yl)-1H-indazol-3-yl]propan-2-ol



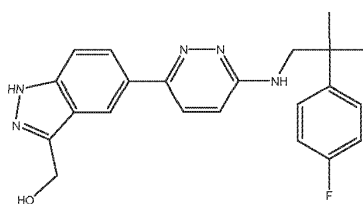
420.1 B

3-(6-{{2-(3,5-difluoro(2-pyridyl))-2-methylpropyl}amino}pyridazin-3-yl)benzamide



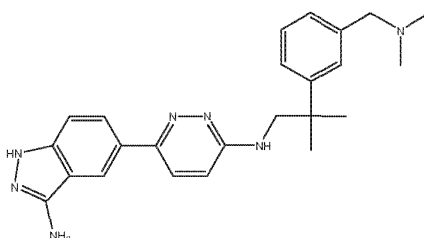
384.0 B

[5-(6-{{2-(4-fluorophenyl)-2-methylpropyl}amino}pyridazin-3-yl)-1H-indazol-3-yl]methan-1-ol



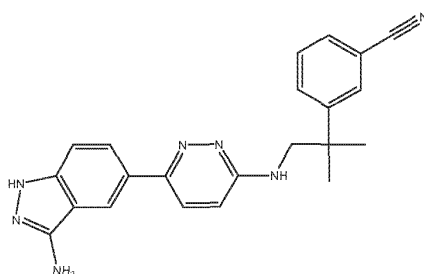
392.1 A

{{3-(2-{{6-(3-amino(1H-indazol-5-yl))pyridazin-3-yl}amino}-tert-butyl)phenyl)methyl}dimethylamine



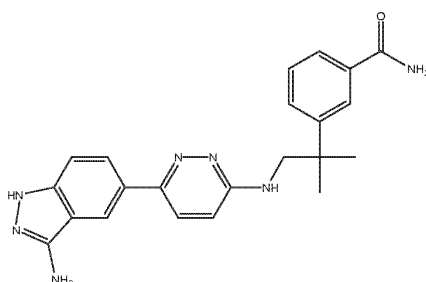
416.3 D

3-(2-{{6-(3-amino(1H-indazol-5-yl))pyridazin-3-yl}amino}-tert-butyl)benzenecarbonitrile



384.2 A

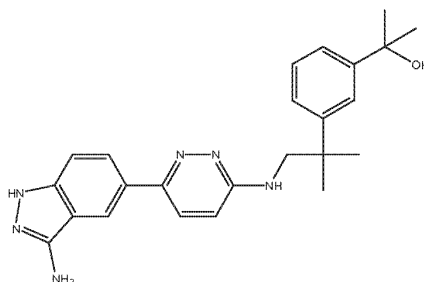
3-(2-[[6-(3-amino(1H-indazol-5-yl))pyridazin-3-yl]amino]-tert-butyl)benzamide



402.2

D

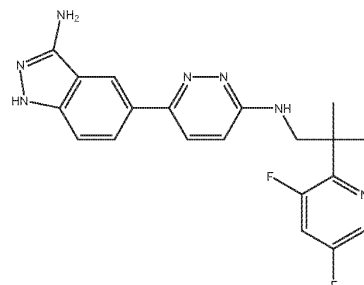
2-[3-(2-[[6-(3-amino(1H-indazol-5-yl))pyridazin-3-yl]amino]-tert-butyl)phenyl]propan-2-ol



417.2

C

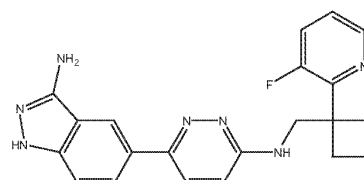
[6-(3-amino(1H-indazol-5-yl))pyridazin-3-yl][2-(3,5-difluoro(2-pyridyl))-2-methylpropyl]amine



396.0

A

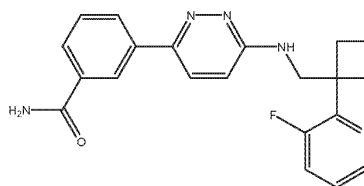
[6-(3-amino(1H-indazol-5-yl))pyridazin-3-yl][[(3-fluoro(2-pyridyl))cyclobutyl]methyl]amine



390.0

A

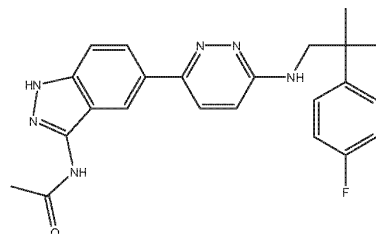
3-[6-([(3-fluoro(2-pyridyl))cyclobutyl]methyl)amino]pyridazin-3-yl]benzamide



378.2

A

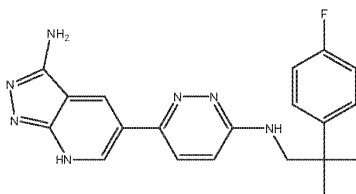
N-[5-(6-([2-(4-fluorophenyl)-2-methylpropyl]amino)pyridazin-3-yl)-1H-indazol-3-yl]acetamide



419.1

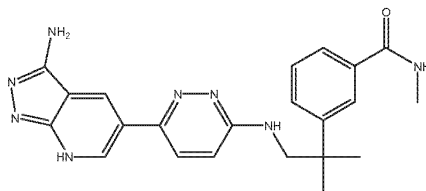
A

[6-(3-aminopyrazolo[5,4-b]pyridin-5-yl)pyridazin-3-yl][2-(4-fluorophenyl)-2-methylpropyl]amine



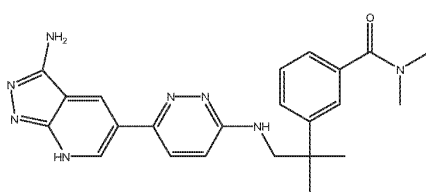
387.3 A

[3-(2-[[6-(3-amino(1H-indazol-5-yl))pyridazin-3-yl]amino]-tert-butyl)phenyl]-N-methylcarboxamide



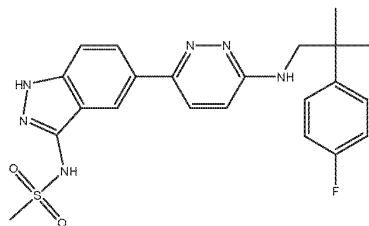
416.2 D

[3-(2-[[6-(3-amino(1H-indazol-5-yl))pyridazin-3-yl]amino]-tert-butyl)phenyl]-N,N-dimethylcarboxamide



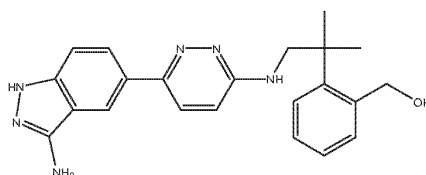
430.2 C

[5-(6-[[2-(4-fluorophenyl)-2-methylpropyl]amino]pyridazin-3-yl)(1H-indazol-3-yl)(methylsulfonyl)amine



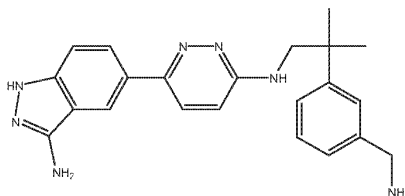
455.1 A

[2-(2-[[6-(3-amino(1H-indazol-5-yl))pyridazin-3-yl]amino]-tert-butyl)phenyl]methan-1-ol



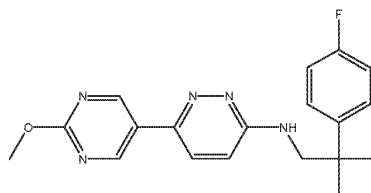
389.1 B

[6-(3-amino(1H-indazol-5-yl))pyridazin-3-yl][2-(3-(aminomethyl)phenyl)-2-methylpropyl]amine



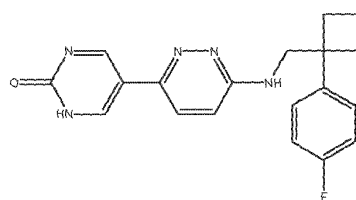
388.2 C

{{(4-fluorophenyl)cyclobutyl)methyl}[6-(2-methoxypyrimidin-5-yl)pyridazin-3-yl]amine



366.1 B

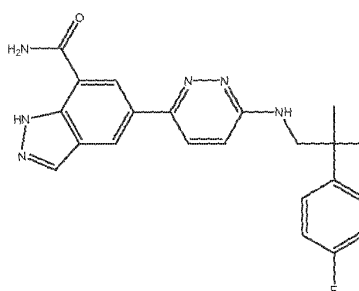
5-[6-({[(4-fluorophenyl)cyclobutyl]methyl}amino)pyridazin-3-yl]-3-hydropyrimidin-2-one



352.1

B

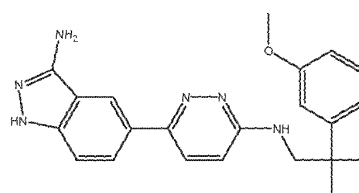
5-(6-({[2-(4-fluorophenyl)-2-methylpropyl]amino}pyridazin-3-yl)-1H-indazole-7-carboxamide



405.1

B

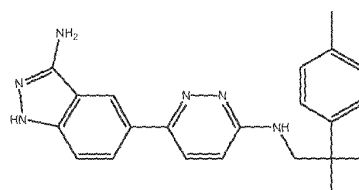
[6-(3-amino(1H-indazol-5-yl))pyridazin-3-yl][2-(3-methoxyphenyl)-2-methylpropyl]amine



389.1

A

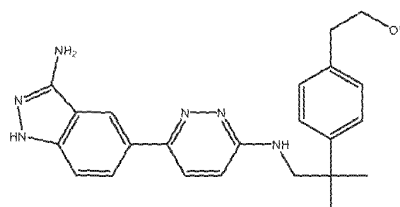
[6-(3-amino(1H-indazol-5-yl))pyridazin-3-yl][2-methyl-2-(4-methylphenyl)propyl]amine



373.1

A

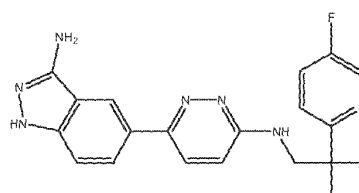
2-[3-(2-({[6-(3-amino(1H-indazol-5-yl))pyridazin-3-yl]amino}-tert-butyl)phenyl)ethan-1-ol



403.2

B

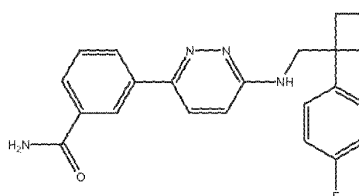
[6-(3-amino(1H-indazol-5-yl))pyridazin-3-yl][{(5-fluoro(2-pyridyl))cyclobutyl]methyl}amine



390.0

A

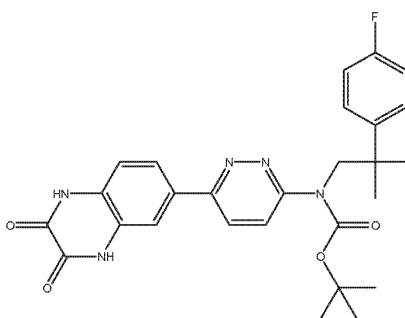
3-[6-({[(5-fluoro-2-pyridyl)cyclobutyl]methyl}amino)pyridazin-3-yl]benzamide



378.0

B

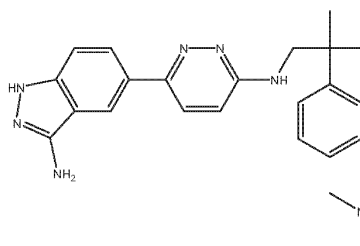
(tert-butoxy)-N-[6-(2,3-dioxo(1,4-dihydroquinoxalin-6-yl))pyridazin-3-yl]-N-[2-(4-fluorophenyl)-2-methylpropyl]carboxamide



506.1

D

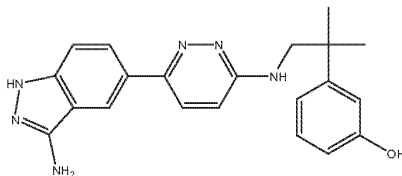
{2-[3-(2-[[6-(3-amino(1H-indazol-5-yl))pyridazin-3-yl]amino}-tert-butyl)phenyl]ethyl}dimethylamine



430.2

D

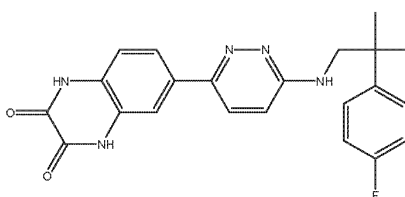
3-(2-[[6-(3-amino(1H-indazol-5-yl))pyridazin-3-yl]amino]-tert-butyl)phenol



375.1

B

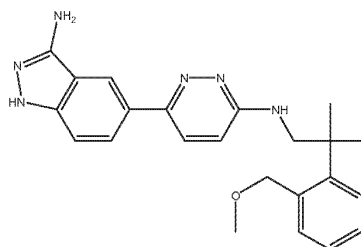
6-(6-[[2-(4-fluorophenyl)-2-methylpropyl]amino]pyridazin-3-yl)-1,4-dihydroquinoxaline-2,3-dione



406.1

A

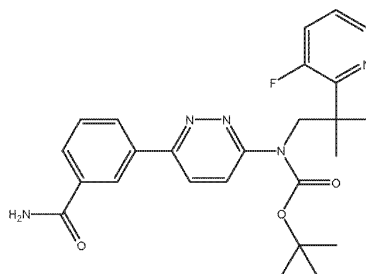
[6-(3-amino(1H-indazol-5-yl))pyridazin-3-yl]{2-[2-(methoxymethyl)phenyl]-2-methylpropyl}amine



403.2

C

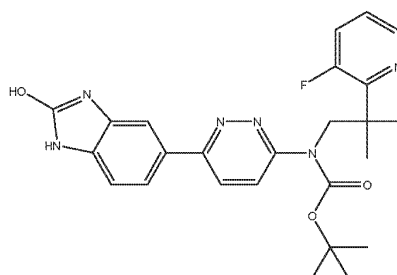
3-(6-((tert-butoxy)-N-[2-(3-fluoro(2-pyridyl))-2-methylpropyl]carbonylamino}pyridazin-3-yl)benzamide



466.1

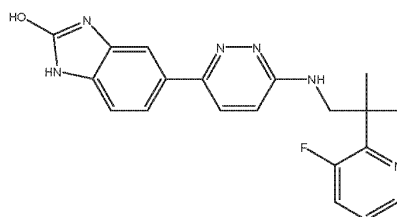
D

(tert-butoxy)-N-[2-(3-fluoro(2-pyridyl))-2-methylpropyl]-N-[6-(2-hydroxybenzimidazol-5-yl)pyridazin-3-yl]carboxamide



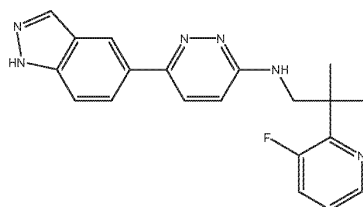
479.1 D

5-(6-([2-(3-fluoro(2-pyridyl))-2-methylpropyl]amino)pyridazin-3-yl)benzimidazol-2-ol



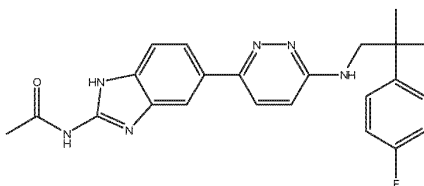
379.1 A

(6-(1H-indazol-5-yl)pyridazin-3-yl)[2-(3-fluoro(2-pyridyl))-2-methylpropyl]amine



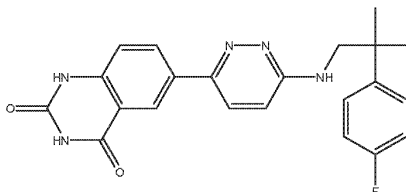
363.1 B

N-[6-(6-([2-(4-fluorophenyl)-2-methylpropyl]amino)pyridazin-3-yl)benzimidazol-2-yl]acetamide



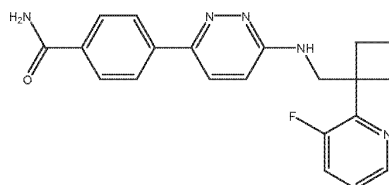
419.1 A

6-(6-([2-(4-fluorophenyl)-2-methylpropyl]amino)pyridazin-3-yl)-1,3-dihydroquinazoline-2,4-dione



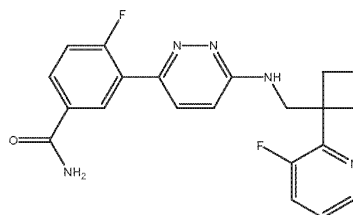
406.1 B

4-[6-([[(3-fluoro-2-pyridyl)cyclobutyl]methyl]amino)pyridazin-3-yl]benzamide



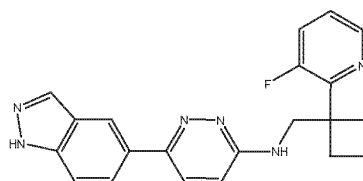
378.0 B

4-fluoro-3-[6-([[(3-fluoro(2-pyridyl))cyclobutyl]methyl]amino)pyridazin-3-yl]benzamide



396.2 A

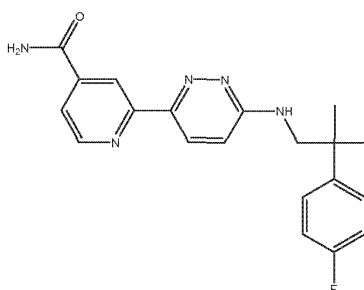
(6-(1H-indazol-5-yl)pyridazin-3-yl){[(3-fluoro(2-pyridyl)cyclobutyl)methyl]amine



375.0

A

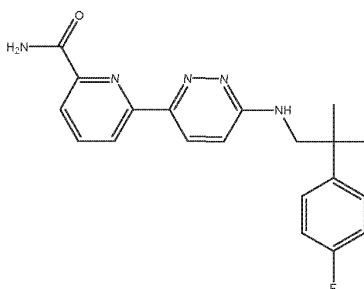
2-(6-{{2-(4-fluorophenyl)-2-methylpropyl}amino}pyridazin-3-yl)pyridine-4-carboxamide



366.0

A

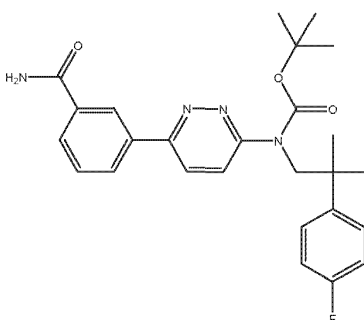
6-(6-{{2-(4-fluorophenyl)-2-methylpropyl}amino}pyridazin-3-yl)pyridine-2-carboxamide



366.1

B

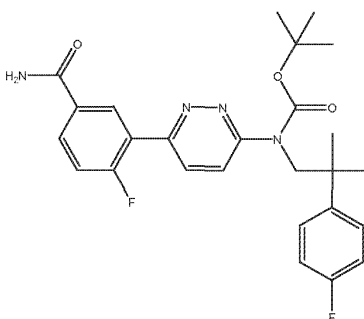
3-(6-{{tert-butoxy)-N-[2-(4-fluorophenyl)-2-methylpropyl]carbonylamino}pyridazin-3-yl)benzamide



465.3

D

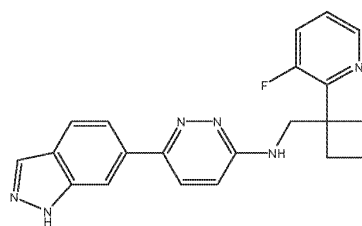
3-(6-{{tert-butoxy)-N-[2-(4-fluorophenyl)-2-methylpropyl]carbonylamino}pyridazin-3-yl)-4-fluorobenzamide



483.3

D

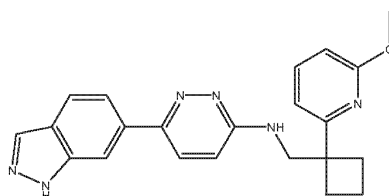
(6-(1H-indazol-6-yl)pyridazin-3-yl){[(3-fluoro(2-pyridyl))cyclobutyl]methyl}amine



375.0

A

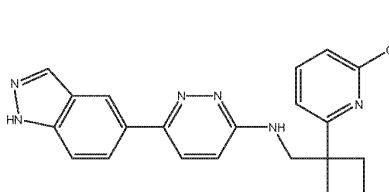
(6-(1H-indazol-6-yl)pyridazin-3-yl){[(6-methoxy(2-pyridyl))cyclobutyl]methyl}amine



387.1

A

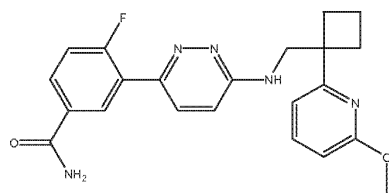
(6-(1H-indazol-5-yl)pyridazin-3-yl){[(6-methoxy(2-pyridyl))cyclobutyl]methyl}amine



387.1

A

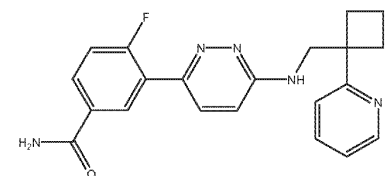
4-fluoro-3-[6-({[(6-methoxy(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]benzamide



408.1

A

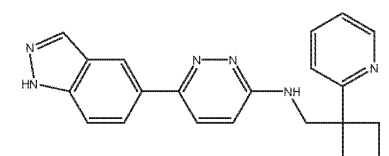
4-fluoro-3-(6-({[(2-pyridyl)cyclobutyl]methyl}amino)pyridazin-3-yl)benzamide



378.1

A

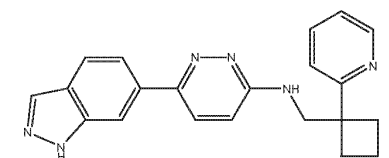
(6-(1H-indazol-5-yl)pyridazin-3-yl){[(2-pyridyl)cyclobutyl]methyl}amine



357.2

A

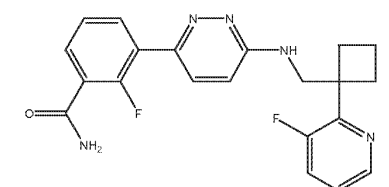
(6-(1H-indazol-6-yl)pyridazin-3-yl){[(2-pyridyl)cyclobutyl]methyl}amine



357.2

A

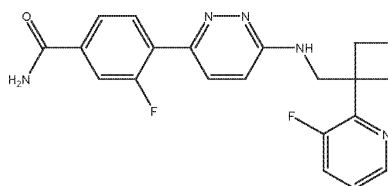
2-fluoro-3-[6-({[(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]benzamide



396.0

B

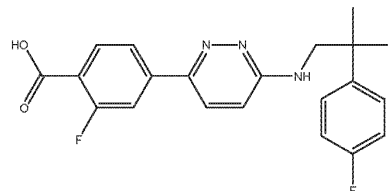
3-fluoro-4-[6-({[(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]benzamide



396.0

B

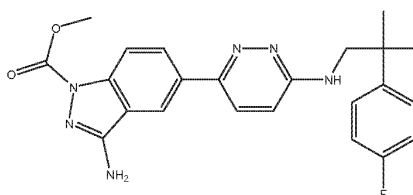
2-fluoro-4-(6-({[2-(4-fluorophenyl)-2-methylpropyl]amino}pyridazin-3-yl)benzoic acid



384.1

D

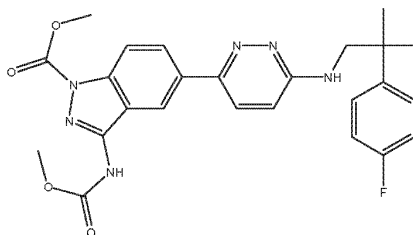
methyl 3-amino-5-(6-({[2-(4-fluorophenyl)-2-methylpropyl]amino}pyridazin-3-yl)-1H-indazolecarboxylate



435.1

B

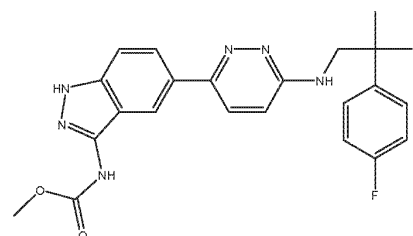
methyl 5-(6-({[2-(4-fluorophenyl)-2-methylpropyl]amino}pyridazin-3-yl)-3-(methoxycarbonylamino)-1H-indazolecarboxylate



493.1

C

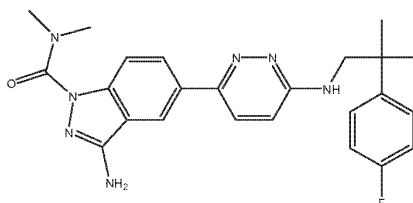
N-[5-(6-({[2-(4-fluorophenyl)-2-methylpropyl]amino}pyridazin-3-yl)(1H-indazol-3-yl))]methoxycarboxamide



435.1

A

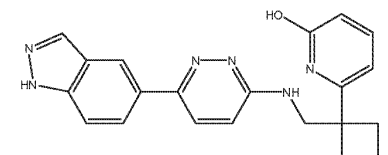
[3-amino-5-(6-({[2-(4-fluorophenyl)-2-methylpropyl]amino}pyridazin-3-yl)(1H-indazolyl)]-N,N-dimethylcarboxamide



448.1

B

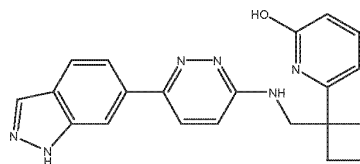
6-({[(6-(1H-indazol-5-yl)pyridazin-3-yl)amino]methyl}cyclobutyl)pyridin-2-ol



373.1

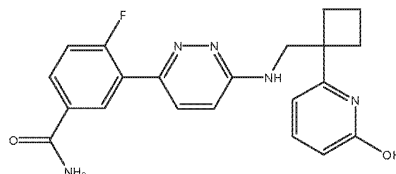
D

6-(((6-(1H-indazol-6-yl)pyridazin-3-yl)amino)methyl)cyclobutyl)pyridin-2-ol



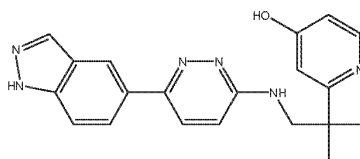
373.1 D

4-fluoro-3-[6-(((6-hydroxy(2-pyridyl))cyclobutyl)methyl)amino]pyridazin-3-yl]benzamide



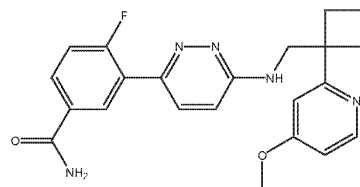
394.1 D

2-(((6-(1H-indazol-5-yl)pyridazin-3-yl)amino)methyl)cyclobutyl)pyridin-4-ol



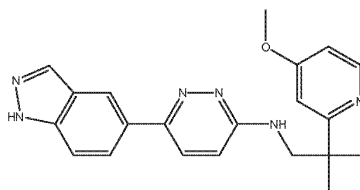
373.1 D

4-fluoro-3-[6-(((4-methoxy(2-pyridyl))cyclobutyl)methyl)amino]pyridazin-3-yl]benzamide



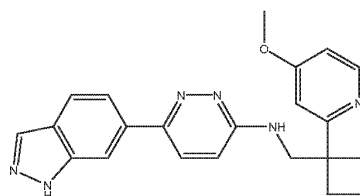
408.2 B

(6-(1H-indazol-5-yl)pyridazin-3-yl)((4-methoxy(2-pyridyl))cyclobutyl)methyl)amine



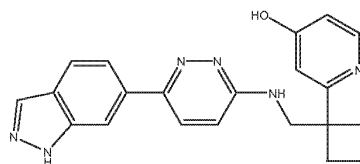
387.2 A

(6-(1H-indazol-6-yl)pyridazin-3-yl)((4-methoxy(2-pyridyl))cyclobutyl)methyl)amine



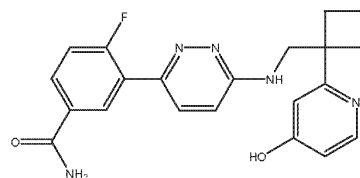
387.2 A

2-(((6-(1H-indazol-6-yl)pyridazin-3-yl)amino)methyl)cyclobutyl)pyridin-4-ol



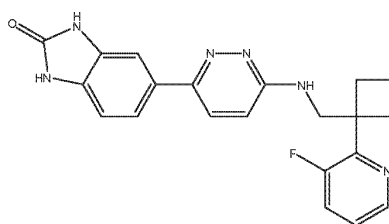
373.2 D

4-fluoro-3-[6-(((4-hydroxy(2-pyridyl))cyclobutyl)methyl)amino]pyridazin-3-yl]benzamide



394.2 D

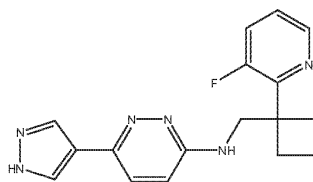
5-[6-({[(3-fluoro-2-pyridyl)cyclobutyl]methyl}amino)pyridazin-3-yl]-3-hydrobenzimidazol-2-one



391.0

B

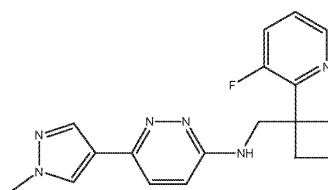
{{[(3-fluoro(2-pyridyl))cyclobutyl]methyl}{6-pyrazol-4-ylpyridazin-3-yl}amine



325.0

C

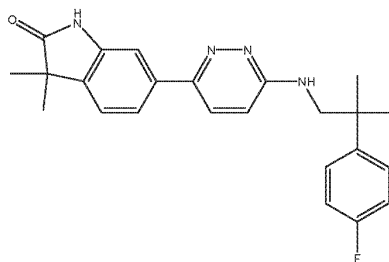
{{[(3-fluoro(2-pyridyl))cyclobutyl]methyl}[6-(1-methylpyrazol-4-yl)pyridazin-3-yl]amine



339.0

D

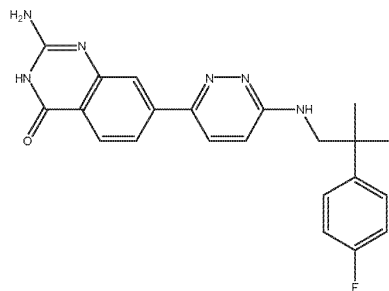
6-(6-{{[2-(4-fluorophenyl)-2-methylpropyl]amino}pyridazin-3-yl)-3,3-dimethylindolin-2-one



405.0

D

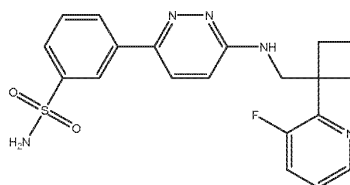
2-amino-7-(6-{{[2-(4-fluorophenyl)-2-methylpropyl]amino}pyridazin-3-yl)-3-hydroquinazolin-4-one



405.1

C

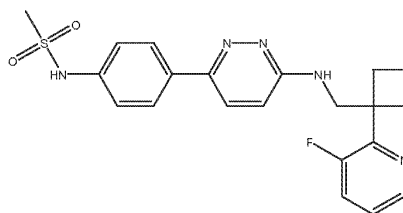
3-[6-({[(3-fluoro-2-pyridyl)cyclobutyl]methyl}amino)pyridazin-3-yl]benzenesulfonamide



414.4

A

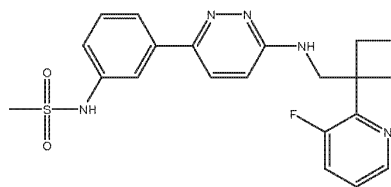
{4-[6-({[(3-fluoro(2-pyridyl))cyclobutyl)methyl]amino}pyridazin-3-yl)phenyl}(methylsulfonyl)amine



428.3

B

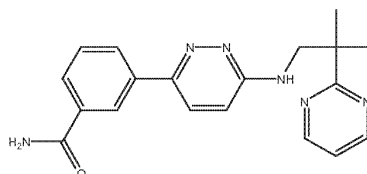
{3-[6-({[(3-fluoro(2-pyridyl))cyclobutyl)methyl]amino}pyridazin-3-yl)phenyl}(methylsulfonyl)amine



428.3

B

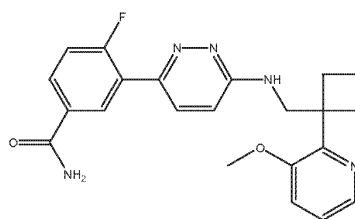
3-{6-[(2-methyl-2-pyrimidin-2-yl)propyl]amino}pyridazin-3-ylbenzamide



349.0

D

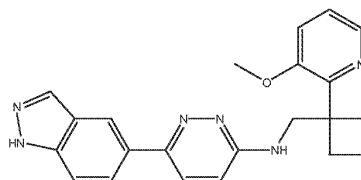
4-fluoro-3-[6-({[(3-methoxy(2-pyridyl))cyclobutyl)methyl]amino}pyridazin-3-yl]benzamide



408.2

B

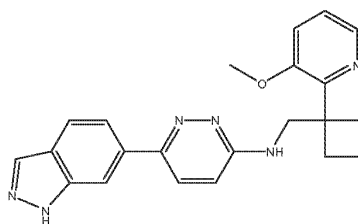
(6-(1H-indazol-5-yl)pyridazin-3-yl){[(3-methoxy(2-pyridyl))cyclobutyl)methyl]amine



387.2

B

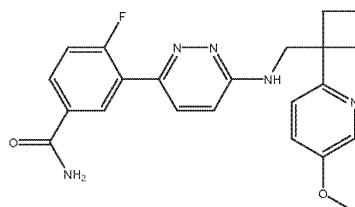
(6-(1H-indazol-6-yl)pyridazin-3-yl){[(3-methoxy(2-pyridyl))cyclobutyl)methyl]amine



387.1

B

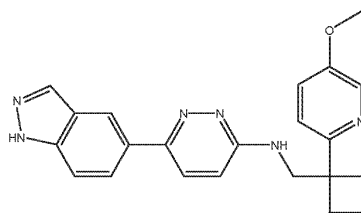
4-fluoro-3-[6-({[(5-methoxy(2-pyridyl))cyclobutyl)methyl]amino}pyridazin-3-yl]benzamide



408.1

D

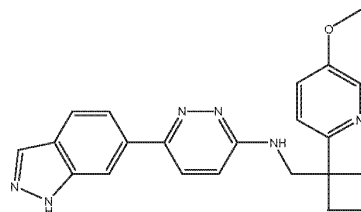
(6-(1H-indazol-5-yl)pyridazin-3-yl){[(5-methoxy(2-pyridyl))cyclobutyl]methyl}amine



387.2

B

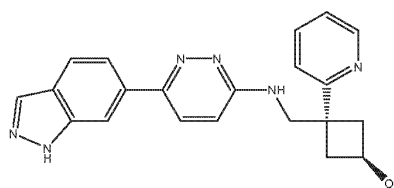
(6-(1H-indazol-6-yl)pyridazin-3-yl){[(5-methoxy(2-pyridyl))cyclobutyl]methyl}amine



387.2

B

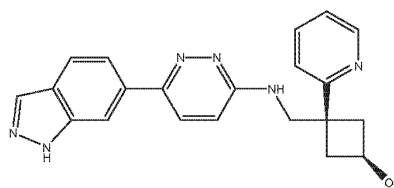
3-([(6-(1H-indazol-6-yl)pyridazin-3-yl)amino]methyl)-3-(2-pyridyl)cyclobutan-1-ol



373.1

D

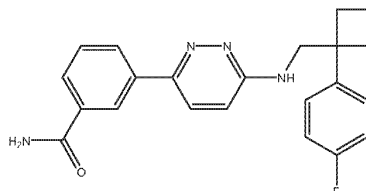
3-([(6-(1H-indazol-6-yl)pyridazin-3-yl)amino]methyl)-3-(2-pyridyl)cyclobutan-1-ol



373.2

D

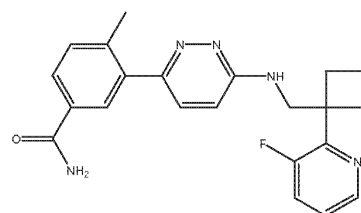
3-[6-([(4-fluorophenyl)cyclobutyl]methyl)amino]pyridazin-3-yl]benzamide



377.3

A

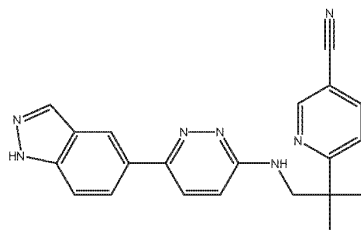
3-[6-([(3-fluoro(2-pyridyl))cyclobutyl]methyl)amino]pyridazin-3-yl]-4-methylbenzamide



392.3

B

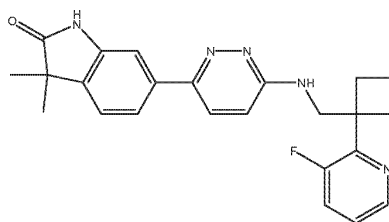
6-([(6-(1H-indazol-5-yl)pyridazin-3-yl)amino]methyl)cyclobutyl)pyridine-3-carbonitrile



382.2

B

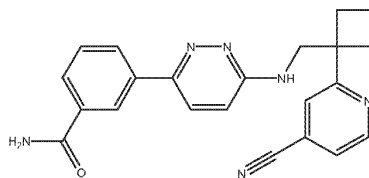
6-[6-({[(3-fluoro(2-pyridyl)cyclobutyl)methyl]amino)pyridazin-3-yl]-3,3-dimethylindolin-2-one



418.0

D

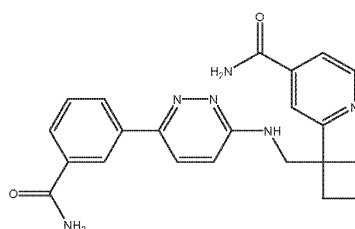
3-[6-({[(4-cyano-2-pyridyl)cyclobutyl)methyl]amino)pyridazin-3-yl]benzamide



385.1

B

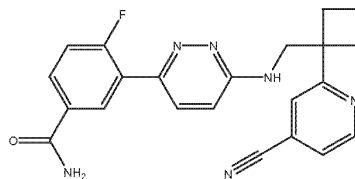
2-({[6-(3-carbamoylphenyl)pyridazin-3-yl]amino)methylcyclobutyl}pyridine-4-carboxamide



403.2

D

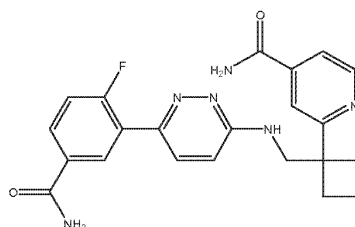
3-[6-({[(4-cyano(2-pyridyl)cyclobutyl)methyl]amino)pyridazin-3-yl]-4-fluorobenzamide



403.1

B

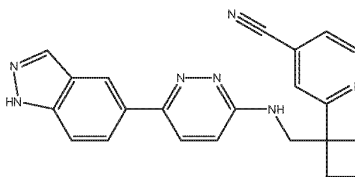
2-({[6-(3-carbamoyl-6-fluorophenyl)pyridazin-3-yl]amino)methylcyclobutyl}pyridine-4-carboxamide



421.2

D

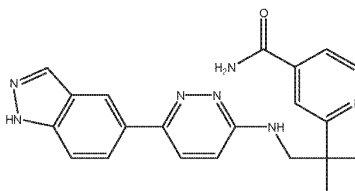
2-({[6-(1H-indazol-5-yl)pyridazin-3-yl]amino)methylcyclobutyl}pyridine-4-carbonitrile



382.1

A

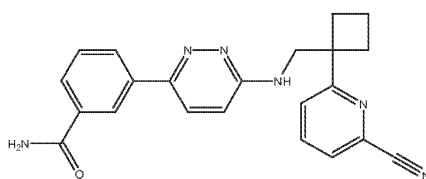
2-({[6-(1H-indazol-5-yl)pyridazin-3-yl]amino)methylcyclobutyl}pyridine-4-carboxamide



400.2

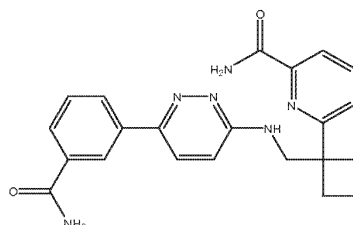
C

3-[6-({[(6-cyano-2-pyridyl)cyclobutyl]methyl}amino)pyridazin-3-yl]benzamide



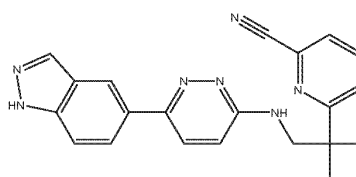
385.1 B

6-({[(6-3-carbamoylphenyl)pyridazin-3-yl]amino)methyl)cyclobutyl]pyridine-2-carboxamide



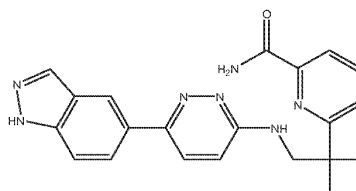
403.2 D

6-({[(6-(1H-indazol-5-yl)pyridazin-3-yl)amino]methyl)cyclobutyl]pyridine-2-carbonitrile



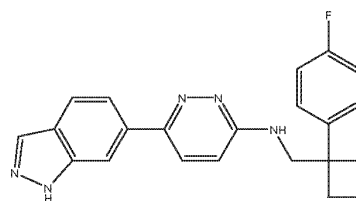
382.1 B

6-({[(6-(1H-indazol-5-yl)pyridazin-3-yl)amino]methyl)cyclobutyl]pyridine-2-carboxamide



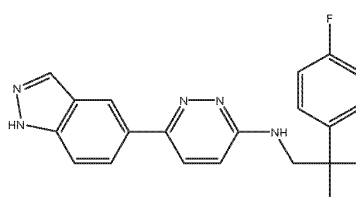
400.1 B

(6-(1H-indazol-6-yl)pyridazin-3-yl)({[(4-fluorophenyl)cyclobutyl]methyl}amine



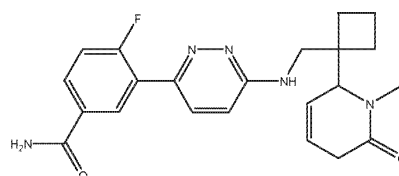
374.1 A

(6-(1H-indazol-5-yl)pyridazin-3-yl)({[(4-fluorophenyl)cyclobutyl]methyl}amine



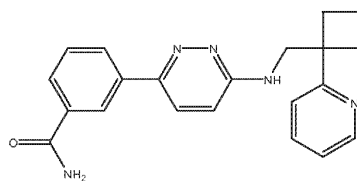
374.1 A

4-fluoro-3-[6-({[(1-methyl-6-oxo(2-hydropyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]benzamide



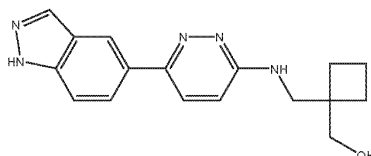
408.1 D

3-(6-([2-pyridylcyclobutyl)methyl]amino)pyridazin-3-yl)benzamide



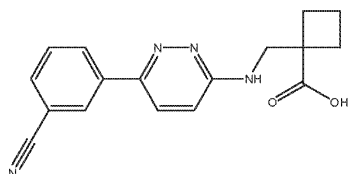
360.2 A

((6-(1H-indazol-5-yl)pyridazin-3-yl)amino)methylcyclobutyl)methanol-1-ol



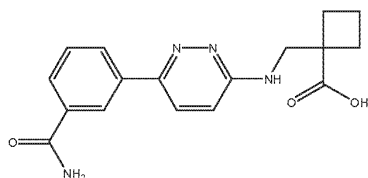
310.2 D

1-([6-(3-cyanophenyl)pyridazin-3-yl]amino)methylcyclobutanecarboxylic acid



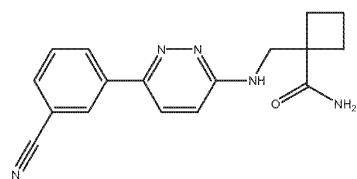
309.2 D

1-([6-(3-carbamoylphenyl)pyridazin-3-yl]amino)methylcyclobutanecarboxylic acid



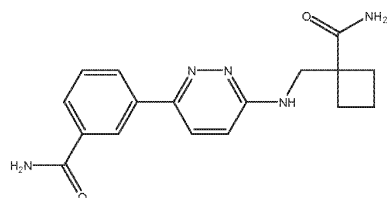
327.2 D

1-([6-(3-cyanophenyl)pyridazin-3-yl]amino)methylcyclobutanecarboxamide



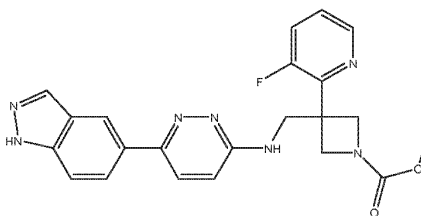
308.2 D

3-(6-((carbamoylcyclobutyl)methyl]amino)pyridazin-3-yl)benzamide



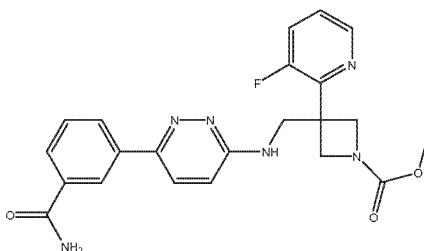
326.2 D

methyl 3-(3-fluoro(2-pyridyl))-3-((6-(1H-indazol-5-yl)pyridazin-3-yl)amino)methyl)azetidinecarboxylate



434.2 D

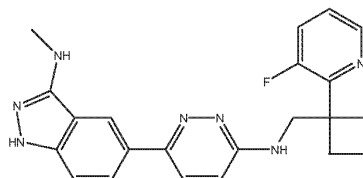
methyl 3-({[6-(3-carbamoylphenyl)pyridazin-3-yl]amino}methyl)-3-(3-fluoro(2-pyridyl))azetidinecarboxylate



437.2

D

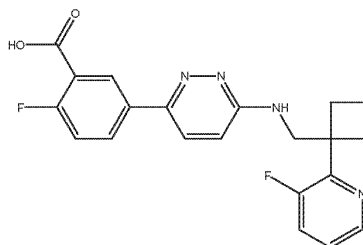
{[(3-fluoro(2-pyridyl))cyclobutyl]methyl}{6-[3-(methylamino)(1H-indazol-5-yl)]pyridazin-3-yl}amine



404.1

A

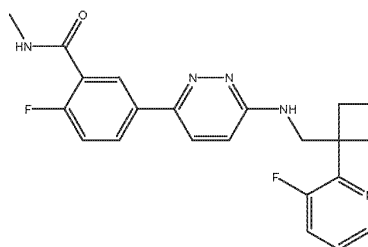
2-fluoro-5-[6-({[(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]benzoic acid



397.0

B

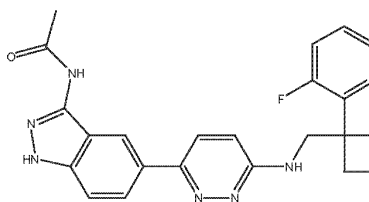
{2-fluoro-5-[6-({[(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]phenyl}-N-methylcarboxamide



410.0

B

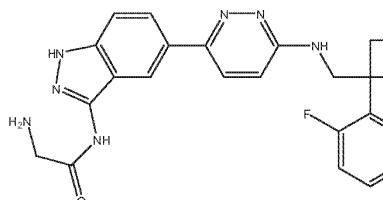
N-{5-[6-({[(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]-1H-indazol-3-yl}acetamide



432.2

B

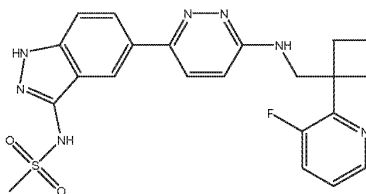
2-amino-N-{5-[6-({[(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl](1H-indazol-3-yl)}acetamide



447.2

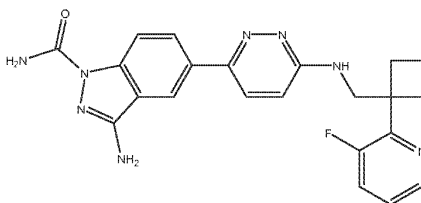
B

{5-[6-({[(3-fluoro(2-pyridyl))cyclobutyl)methyl]amino}pyridazin-3-yl)](1H-indazol-3-yl))(methylsulfonyl)amine



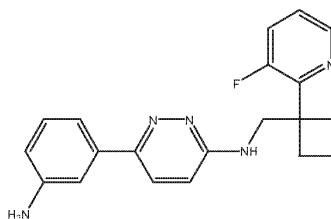
468.2 A

3-amino-5-[6-({[(3-fluoro(2-pyridyl))cyclobutyl)methyl]amino}pyridazin-3-yl)-1H-indazolecarboxamide



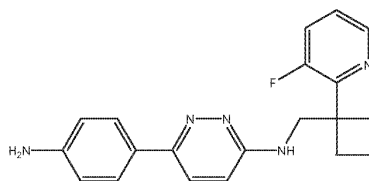
433.3 B

[6-(3-aminophenyl)pyridazin-3-yl)]{[(3-fluoro(2-pyridyl))cyclobutyl)methyl]amine



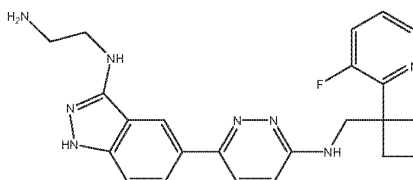
350.2 A

[6-(4-aminophenyl)pyridazin-3-yl)]{[(3-fluoro(2-pyridyl))cyclobutyl)methyl]amine



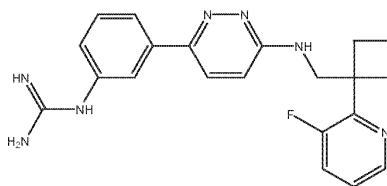
350.2 A

(6-{3-[(2-aminoethyl)amino](1H-indazol-5-yl)}pyridazin-3-yl)]{[(3-fluoro(2-pyridyl))cyclobutyl)methyl]amine



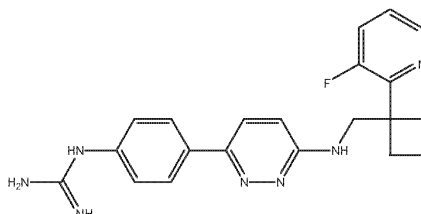
433.0 A

amino{3-[6-({[(3-fluoro(2-pyridyl))cyclobutyl)methyl]amino}pyridazin-3-yl)]phenyl}carboxamidine



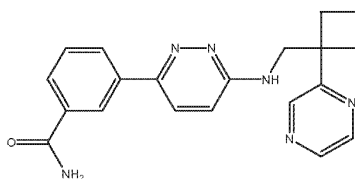
392.2 B

amino{4-[6-({[(3-fluoro(2-pyridyl))cyclobutyl)methyl]amino}pyridazin-3-yl)]phenyl}carboxamidine



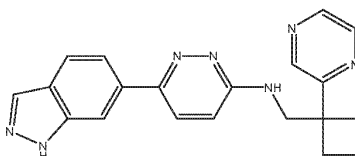
392.2 B

3-[6-({[(pyrazin-2-yl)cyclobutyl)methyl]amino}pyridazin-3-yl)benzamide



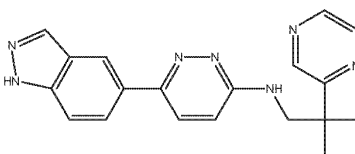
361.3 D

(6-(1H-indazol-6-yl)pyridazin-3-yl)[(pyrazin-2-yl)cyclobutyl)methyl]amine



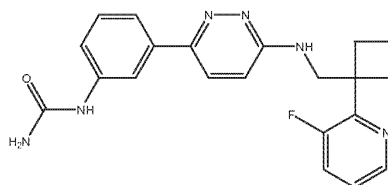
358.3 C

(6-(1H-indazol-5-yl)pyridazin-3-yl)[(pyrazin-2-yl)cyclobutyl)methyl]amine



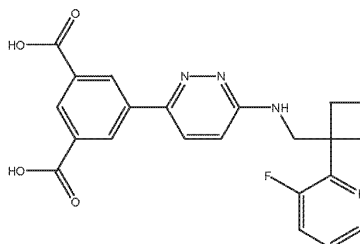
358.3 C

amino-N-{3-[6-({[(3-fluoro(2-pyridyl)cyclobutyl)methyl]amino}pyridazin-3-yl)phenyl]amide



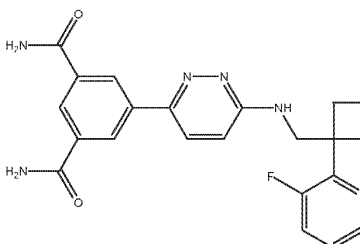
393.2 A

5-[6-({[(3-fluoro-2-pyridyl)cyclobutyl)methyl]amino}pyridazin-3-yl)benzene-1,3-dicarboxylic acid



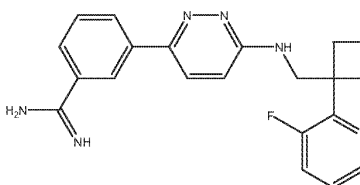
423.2 D

5-[6-({[(3-fluoro-2-pyridyl)cyclobutyl)methyl]amino}pyridazin-3-yl)benzene-1,3-dicarboxamide



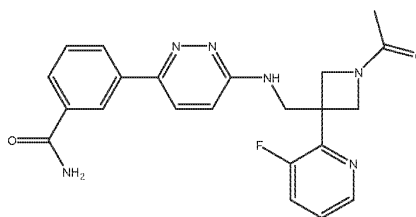
421.2 B

3-[6-({[(3-fluoro-2-pyridyl)cyclobutyl)methyl]amino}pyridazin-3-yl)benzenecarboxamidine



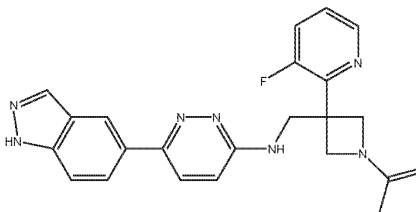
377.2 D

3-[6-({[1-acetyl-3-(3-fluoro(2-pyridyl))azetidin-3-yl]methyl}amino)pyridazin-3-yl]benzamide



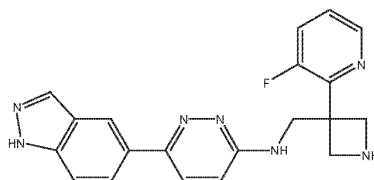
421.2 D

1-acetyl-3-(3-fluoro(2-pyridyl))-3-({[6-(1H-indazol-5-yl)pyridazin-3-yl]amino)methyl}azetidine



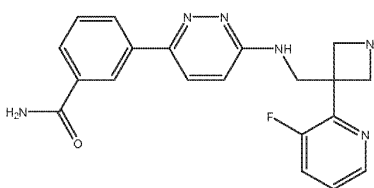
418.2 D

(6-(1H-indazol-5-yl)pyridazin-3-yl){[3-(3-fluoro(2-pyridyl))azetidin-3-yl]methyl}amine



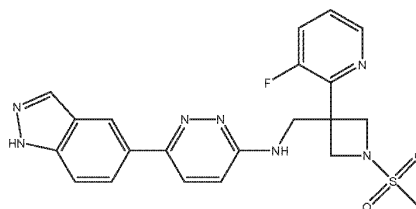
376.2 D

3-[6-({[3-(3-fluoro-2-pyridyl)azetidin-3-yl]methyl}amino)pyridazin-3-yl]benzamide



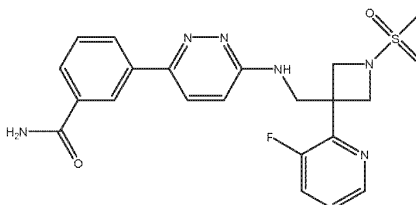
379.2 D

3-(3-fluoro(2-pyridyl))-3-({[6-(1H-indazol-5-yl)pyridazin-3-yl]amino)methyl}-1-(methylsulfonyl)azetidine



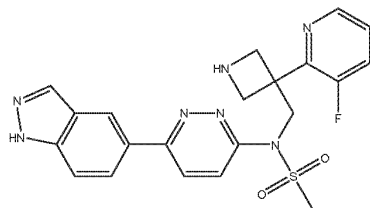
454.2 D

3-[6-({[3-(3-fluoro(2-pyridyl))-1-(methylsulfonyl)azetidin-3-yl]methyl}amino)pyridazin-3-yl]benzamide



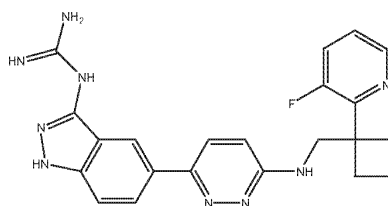
457.2 D

(6-(1H-indazol-5-yl)pyridazin-3-yl){[3-(3-fluoro(2-pyridyl))azetidin-3-yl]methyl}(methylsulfonyl)amine



454.2 D

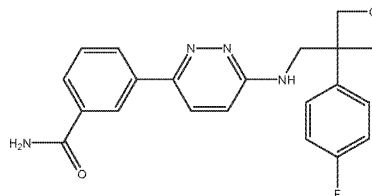
amino{5-[6-({[(3-fluoro(2-pyridyl)cyclobutyl)methyl]amino)pyridazin-3-yl](1H-indazol-3-yl))carboxamidine



432.2

B

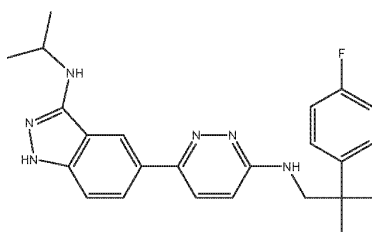
3-[6-({[3-(4-fluorophenyl)oxetan-3-yl]methyl]amino)pyridazin-3-yl]benzamide



379.0

D

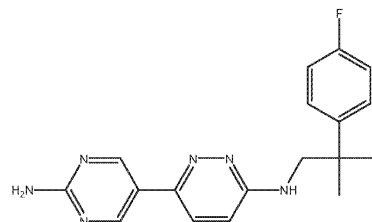
[2-(4-fluorophenyl)-2-methylpropyl](6-{3-[(methylethyl)amino](1H-indazol-5-yl)}pyridazin-3-yl)amine



419.3

A

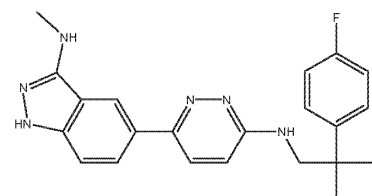
[6-(2-aminopyrimidin-5-yl)pyridazin-3-yl][2-(4-fluorophenyl)-2-methylpropyl]amine



339.2

B

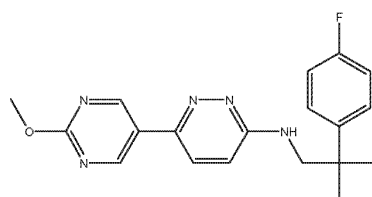
[2-(4-fluorophenyl)-2-methylpropyl]{6-[3-(methylamino)(1H-indazol-5-yl)]pyridazin-3-yl}amine



391.3

B

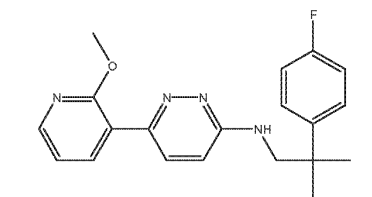
[2-(4-fluorophenyl)-2-methylpropyl][6-(2-methoxypyrimidin-5-yl)pyridazin-3-yl]amine



354.2

C

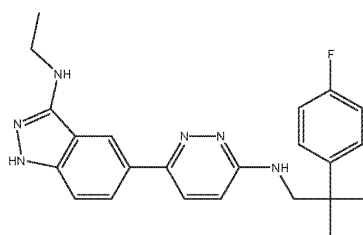
[2-(4-fluorophenyl)-2-methylpropyl][6-(2-methoxy(3-pyridyl))pyridazin-3-yl]amine



353.1

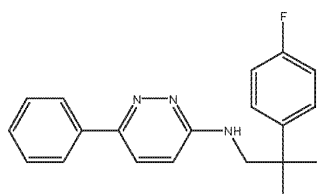
A

{6-[3-(ethylamino)(1H-indazol-5-yl)]pyridazin-3-yl}[2-(4-fluorophenyl)-2-methylpropyl]amine



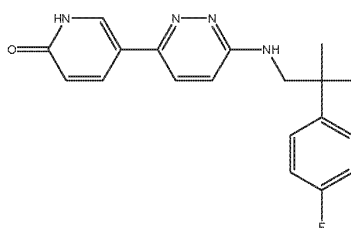
405.2 A

[2-(4-fluorophenyl)-2-methylpropyl](6-phenylpyridazin-3-yl)amine



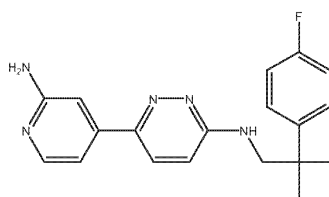
322.2 A

5-(6-{[2-(4-fluorophenyl)-2-methylpropyl]amino}pyridazin-3-yl)hydropyridin-2-one



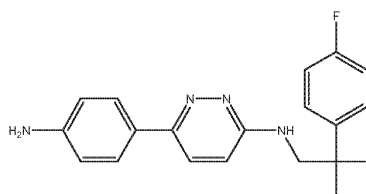
339.2 B

[6-(2-amino(4-pyridyl))pyridazin-3-yl][2-(4-fluorophenyl)-2-methylpropyl]amine



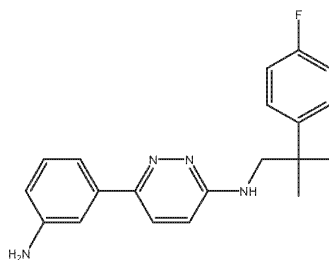
338.2 B

[6-(4-aminophenyl)pyridazin-3-yl][2-(4-fluorophenyl)-2-methylpropyl]amine



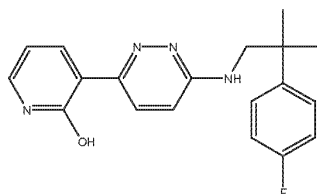
337.1 A

[6-(3-aminophenyl)pyridazin-3-yl][2-(4-fluorophenyl)-2-methylpropyl]amine



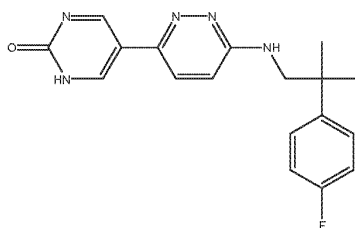
337.1 A

3-(6-{[2-(4-fluorophenyl)-2-methylpropyl]amino}pyridazin-3-yl)pyridin-2-ol



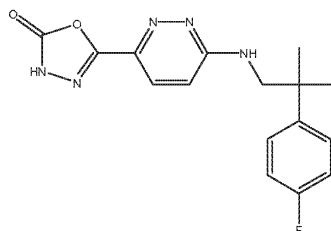
339.1 B

5-(6-{{2-(4-fluorophenyl)-2-methylpropyl}amino}pyridazin-3-yl)-3-hydropyrimidin-2-one



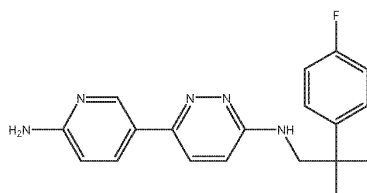
340.1 D

5-(6-{{2-(4-fluorophenyl)-2-methylpropyl}amino}pyridazin-3-yl)-1,3,4-oxadiazolin-2-one



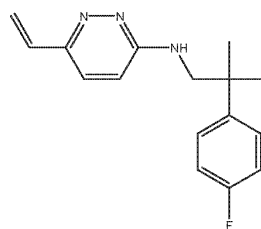
330.0 C

[6-(6-amino(3-pyridyl))pyridazin-3-yl][2-(4-fluorophenyl)-2-methylpropyl]amine



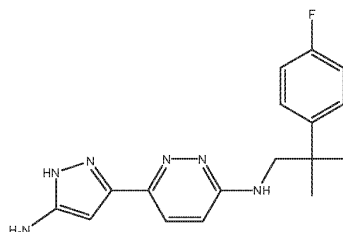
338.2 A

[2-(4-fluorophenyl)-2-methylpropyl](6-vinylpyridazin-3-yl)amine



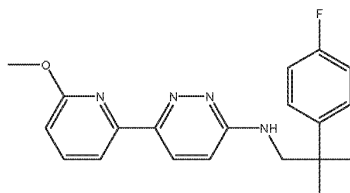
272.0 B

[6-(5-aminopyrazol-3-yl)pyridazin-3-yl][2-(4-fluorophenyl)-2-methylpropyl]amine



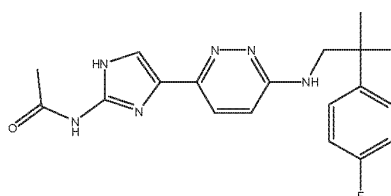
327.2 B

[2-(4-fluorophenyl)-2-methylpropyl][6-(6-methoxy(2-pyridyl))pyridazin-3-yl]amine



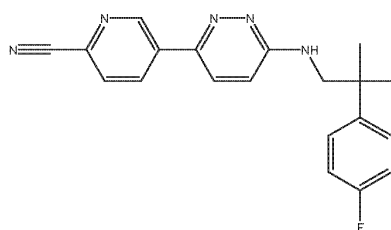
353.1 A

N-[4-(6-{{2-(4-fluorophenyl)-2-methylpropyl}amino}pyridazin-3-yl)imidazol-2-yl]acetamide



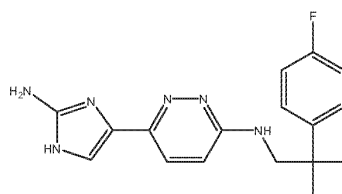
369.2 C

5-(6-{{2-(4-fluorophenyl)-2-methylpropyl}amino}pyridazin-3-yl)pyridine-2-carbonitrile



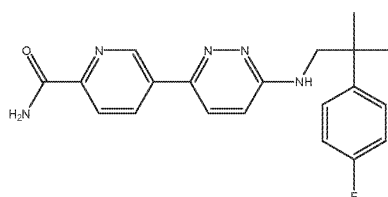
348.0 C

[6-(2-aminoimidazol-4-yl)pyridazin-3-yl][2-(4-fluorophenyl)-2-methylpropyl]amine



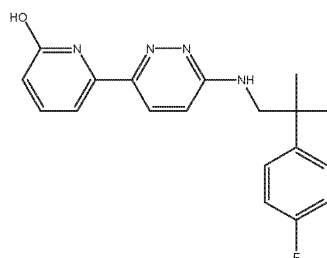
327.2 B

5-(6-{{2-(4-fluorophenyl)-2-methylpropyl}amino}pyridazin-3-yl)pyridine-2-carboxamide



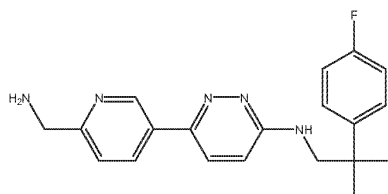
366.1 B

6-(6-{{2-(4-fluorophenyl)-2-methylpropyl}amino}pyridazin-3-yl)pyridin-2-ol



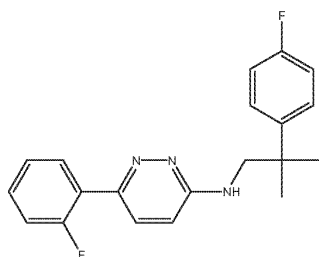
339.1 B

{6-[6-(aminomethyl)(3-pyridyl)]pyridazin-3-yl}[2-(4-fluorophenyl)-2-methylpropyl]amine



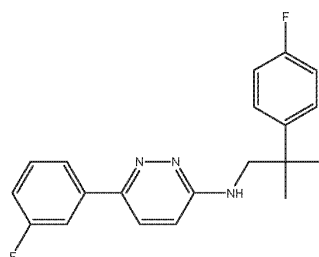
352.2 B

[2-(4-fluorophenyl)-2-methylpropyl][6-(2-fluorophenyl)pyridazin-3-yl]amine



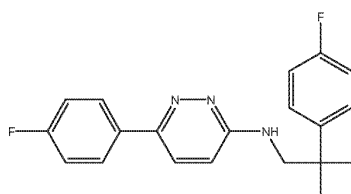
340.1 A

[2-(4-fluorophenyl)-2-methylpropyl][6-(3-fluorophenyl)pyridazin-3-yl]amine



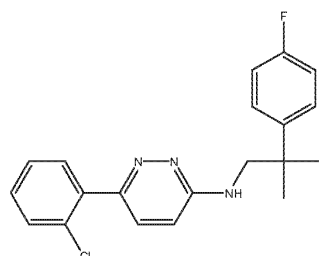
340.1 A

[2-(4-fluorophenyl)-2-methylpropyl][6-(4-fluorophenyl)pyridazin-3-yl]amine



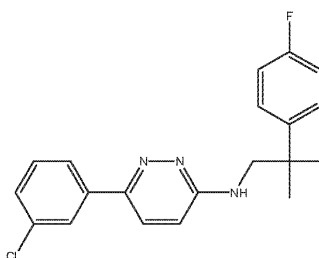
340.1 B

[6-(2-chlorophenyl)pyridazin-3-yl][2-(4-fluorophenyl)-2-methylpropyl]amine



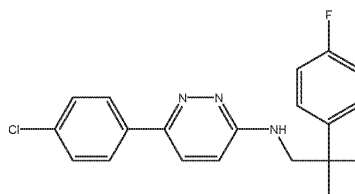
356.1 A

[6-(3-chlorophenyl)pyridazin-3-yl][2-(4-fluorophenyl)-2-methylpropyl]amine



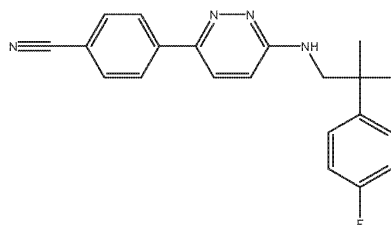
356.1 A

[6-(4-chlorophenyl)pyridazin-3-yl][2-(4-fluorophenyl)-2-methylpropyl]amine



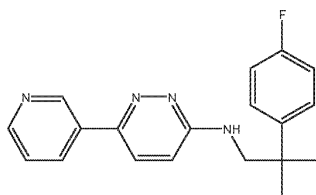
356.1 B

4-(6-([2-(4-fluorophenyl)-2-methylpropyl]amino)pyridazin-3-yl)benzenecarbonitrile



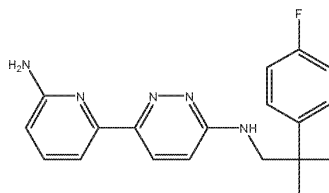
347.1 B

[2-(4-fluorophenyl)-2-methylpropyl](6-(3-pyridyl)pyridazin-3-yl)amine



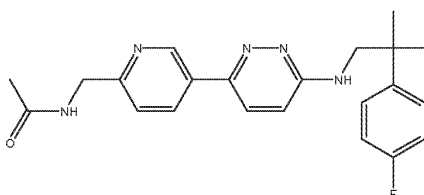
323.1 B

[6-(6-amino(2-pyridyl))pyridazin-3-yl][2-(4-fluorophenyl)-2-methylpropyl]amine



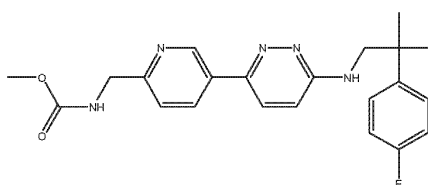
338.2 B

N-([5-(6-([2-(4-fluorophenyl)-2-methylpropyl]amino)pyridazin-3-yl)-2-pyridyl]methyl)acetamide



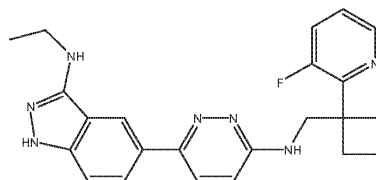
394.2 C

N-([5-(6-([2-(4-fluorophenyl)-2-methylpropyl]amino)pyridazin-3-yl)-2-pyridyl]methyl)methoxycarboxamide



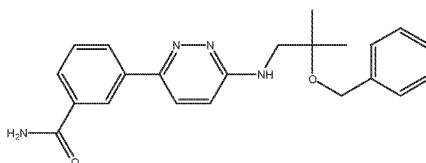
410.2 C

{6-[3-(ethylamino)(1H-indazol-5-yl)]pyridazin-3-yl}[(3-fluoro(2-pyridyl)cyclobutyl)methyl]amine



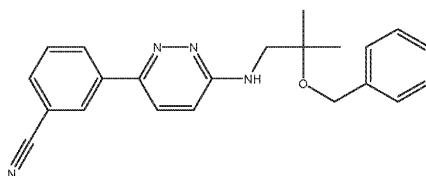
418.2 A

3-(6-([2-methyl-2-(phenylmethoxy)propyl]amino)pyridazin-3-yl)benzamide



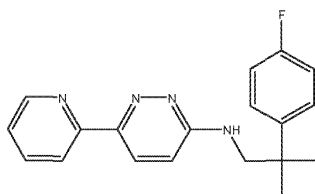
377.0 D

3-(6-([2-methyl-2-(phenylmethoxy)propyl]amino)pyridazin-3-yl)benzenecarbonitrile



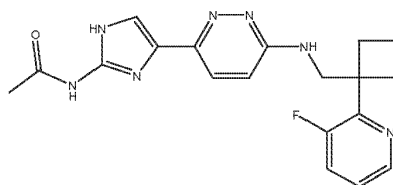
359.0 D

[2-(4-fluorophenyl)-2-methylpropyl](6-(2-pyridyl)pyridazin-3-yl)amine



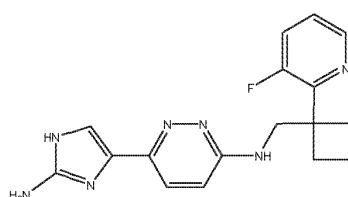
323.1 B

N-{4-[6-({[(3-fluoro-2-pyridyl)cyclobutyl]methyl}amino)pyridazin-3-yl]imidazol-2-yl}acetamide



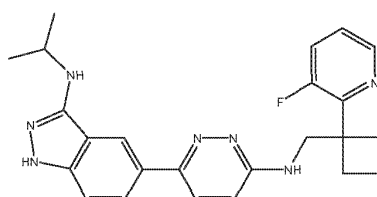
382.1 D

[6-(2-aminoimidazol-4-yl)pyridazin-3-yl]({[(3-fluoro(2-pyridyl))cyclobutyl]methyl}amine



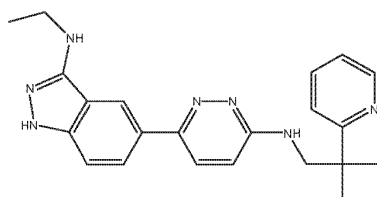
340.1 D

{[(3-fluoro(2-pyridyl))cyclobutyl]methyl}{6-{3-[(methylethyl)amino](1H-indazol-5-yl)}pyridazin-3-yl}amine



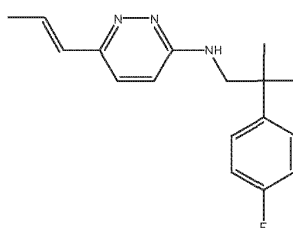
432.2 A

{6-[3-(ethylamino)(1H-indazol-5-yl)]pyridazin-3-yl}[(2-pyridylcyclobutyl)methyl]amine



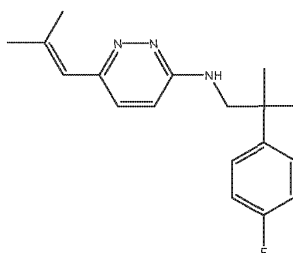
400.2 A

[6-((1E)prop-1-enyl)pyridazin-3-yl][2-(4-fluorophenyl)-2-methylpropyl]amine



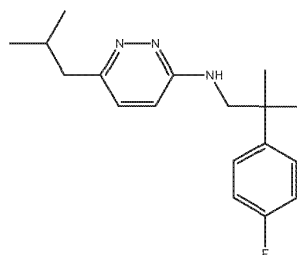
286.0 B

[2-(4-fluorophenyl)-2-methylpropyl][6-(2-methylprop-1-enyl)pyridazin-3-yl]amine



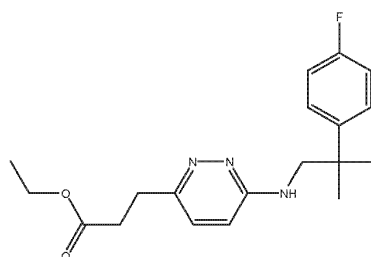
300.0 B

[2-(4-fluorophenyl)-2-methylpropyl][6-(2-methylpropyl)pyridazin-3-yl]amine



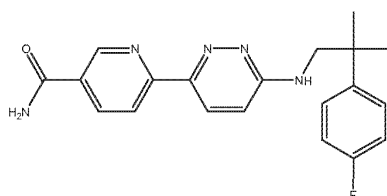
302.0 B

ethyl 3-(6-([2-(4-fluorophenyl)-2-methylpropyl]amino)pyridazin-3-yl)propanoate



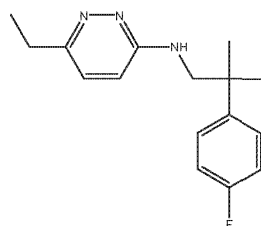
346.0 D

6-(6-([2-(4-fluorophenyl)-2-methylpropyl]amino)pyridazin-3-yl)pyridine-3-carboxamide



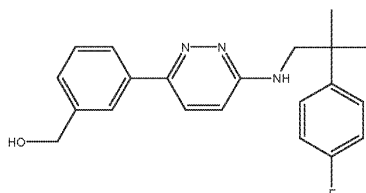
366.1 B

(6-ethylpyridazin-3-yl)[2-(4-fluorophenyl)-2-methylpropyl]amine



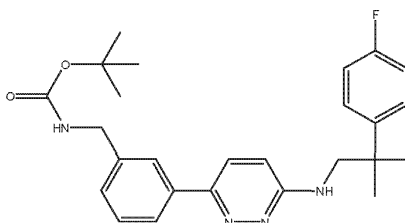
274.0 C

[3-(6-([2-(4-fluorophenyl)-2-methylpropyl]amino)pyridazin-3-yl)phenyl]methan-1-ol



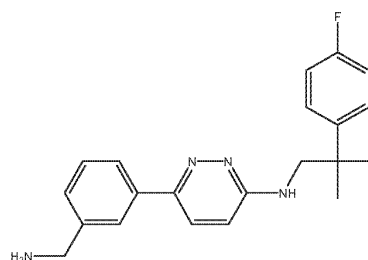
352.2 B

(tert-butoxy)-N-([3-(6-([2-(4-fluorophenyl)-2-methylpropyl]amino)pyridazin-3-yl)phenyl]methyl)carboxamide



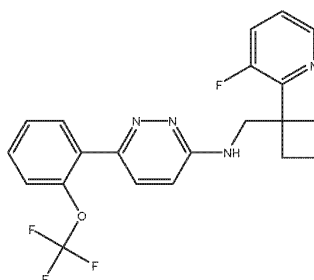
451.1 B

{6-[3-(aminomethyl)phenyl]pyridazin-3-yl}[2-(4-fluorophenyl)-2-methylpropyl]amine



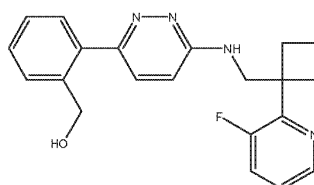
351.2 B

{[(3-fluoro(2-pyridyl))cyclobutyl]methyl}{6-[2-(trifluoromethoxy)phenyl]pyridazin-3-yl}amine



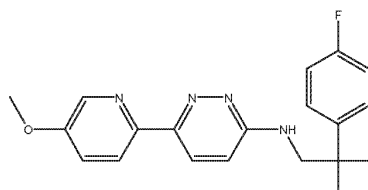
419.1 A

{2-[6-({[(3-fluoro(2-pyridyl)cyclobutyl]methyl)amino]pyridazin-3-yl}phenyl)methan-1-ol}



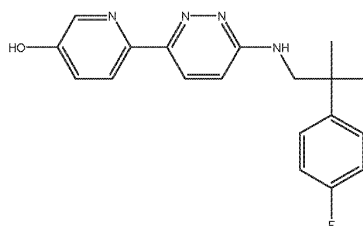
365.2 B

[2-(4-fluorophenyl)-2-methylpropyl][6-(5-methoxy(2-pyridyl))pyridazin-3-yl]amine



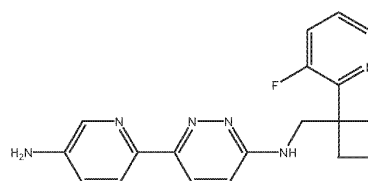
353.2 B

6-(6-{[2-(4-fluorophenyl)-2-methylpropyl]amino}pyridazin-3-yl)pyridin-3-ol



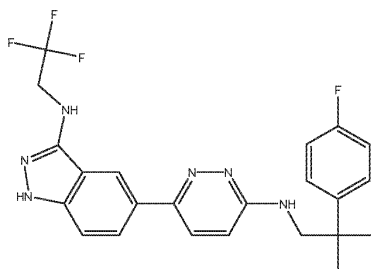
339.1 A

[6-(5-amino(2-pyridyl))pyridazin-3-yl]{[(3-fluoro(2-pyridyl))cyclobutyl]methyl}amine



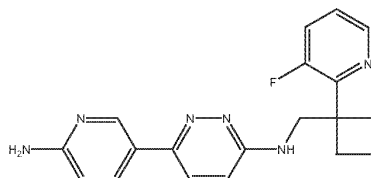
351.2 A

[2-(4-fluorophenyl)-2-methylpropyl](6-{3-[(2,2,2-trifluoroethyl)amino](1H-indazol-5-yl)}pyridazin-3-yl)amine



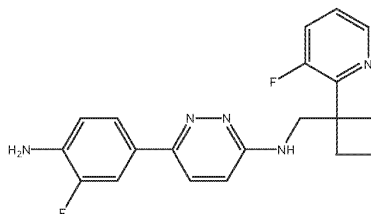
459.2 A

[6-(6-amino(3-pyridyl))pyridazin-3-yl][[(3-fluoro(2-pyridyl))cyclobutyl]methyl]amine



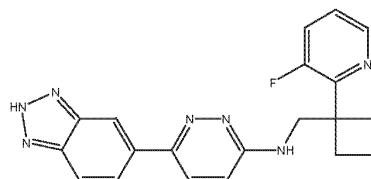
351.2 A

[6-(4-amino-3-fluorophenyl)pyridazin-3-yl][[(3-fluoro(2-pyridyl))cyclobutyl]methyl]amine



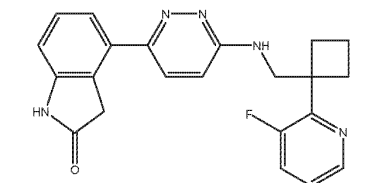
368.1 A

(6-benzotriazol-6-ylpyridazin-3-yl)[[(3-fluoro(2-pyridyl))cyclobutyl]methyl]amine



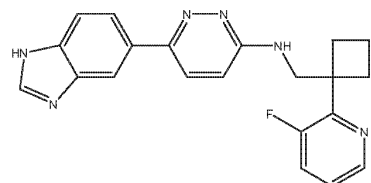
376.1 A

4-[6-([(3-fluoro(2-pyridyl))cyclobutyl]methyl)amino]pyridazin-3-yl]indolin-2-one



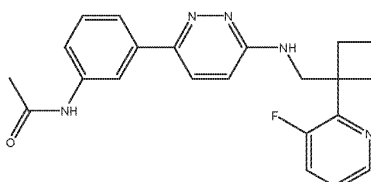
390.1 B

(6-benzimidazol-5-ylpyridazin-3-yl)[[(3-fluoro(2-pyridyl))cyclobutyl]methyl]amine



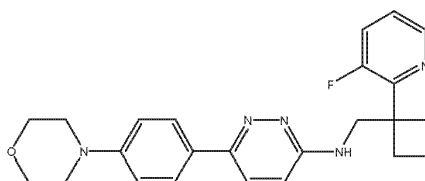
375.1 A

N-{3-[6-([(3-fluoro(2-pyridyl))cyclobutyl]methyl)amino]pyridazin-3-yl]phenyl}acetamide



392.2 B

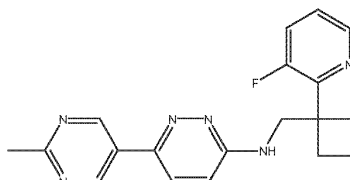
{{(3-fluoro(2-pyridyl)cyclobutyl)methyl}{6-(4-morpholin-4-ylphenyl)pyridazin-3-yl}amine



420.2

D

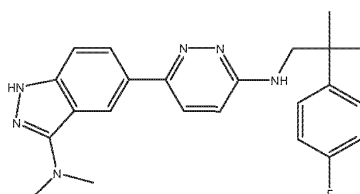
{{(3-fluoro(2-pyridyl)cyclobutyl)methyl}{6-(2-methylpyrimidin-5-yl)pyridazin-3-yl}amine



351.2

D

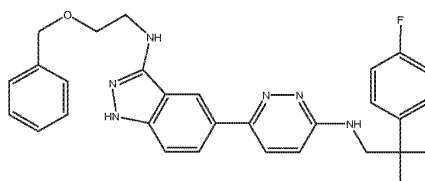
[5-(6-{{2-(4-fluorophenyl)-2-methylpropyl}amino}pyridazin-3-yl)(1H-indazol-3-yl)]dimethylamine



405.2

B

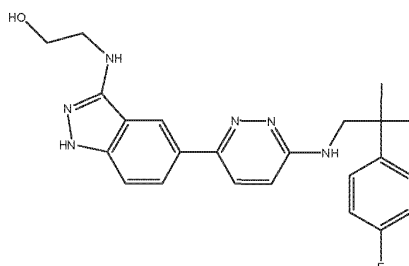
[2-(4-fluorophenyl)-2-methylpropyl][6-(3-{{2-(phenylmethoxy)ethyl}amino}(1H-indazol-5-yl))pyridazin-3-yl]amine



511.2

A

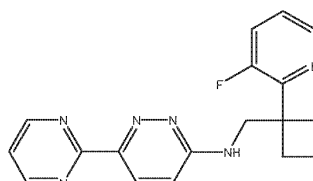
2-{{5-(6-{{2-(4-fluorophenyl)-2-methylpropyl}amino}pyridazin-3-yl)-1H-indazol-3-yl}amino}ethan-1-ol



421.2

A

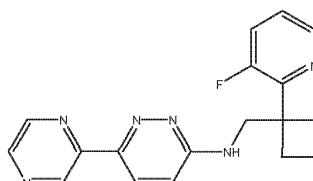
{{(3-fluoro(2-pyridyl)cyclobutyl)methyl}{6-pyrimidin-2-ylpyridazin-3-yl}amine



337.0

B

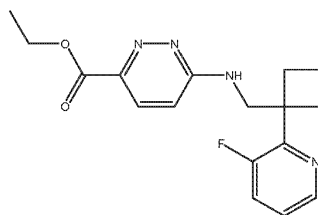
{{(3-fluoro(2-pyridyl)cyclobutyl)methyl}{6-pyrazin-2-ylpyridazin-3-yl}amine



337.0

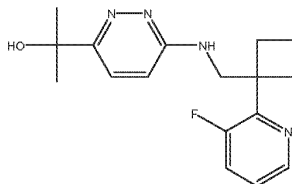
B

ethyl 6-({[(3-fluoro-2-pyridyl)cyclobutyl]methyl}amino)pyridazine-3-carboxylate



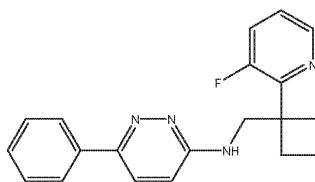
331.0 D

2-[6-({[(3-fluoro-2-pyridyl)cyclobutyl]methyl}amino)pyridazin-3-yl]propan-2-ol



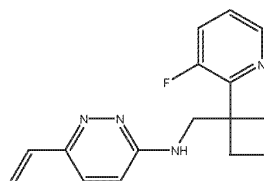
317.0 D

{[(3-fluoro(2-pyridyl))cyclobutyl]methyl}(6-phenylpyridazin-3-yl)amine



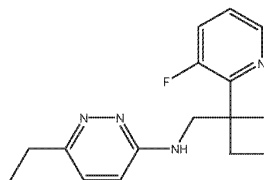
335.1 A

{[(3-fluoro(2-pyridyl))cyclobutyl]methyl}(6-vinylpyridazin-3-yl)amine



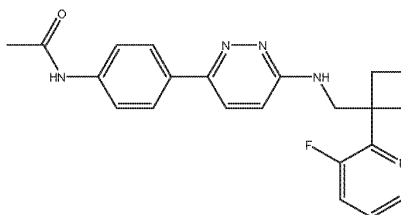
285.1 D

(6-ethylpyridazin-3-yl){[(3-fluoro(2-pyridyl))cyclobutyl]methyl}amine



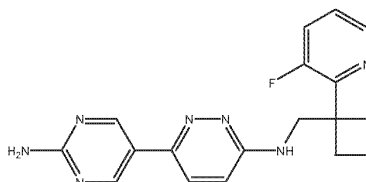
287.1 D

N-{4-[6-({[(3-fluoro-2-pyridyl)cyclobutyl]methyl}amino)pyridazin-3-yl]phenyl}acetamide



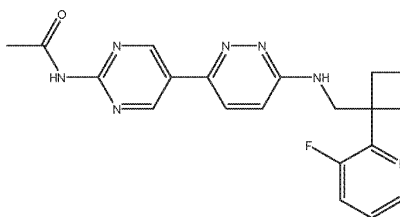
392.2 A

[6-(2-aminopyrimidin-5-yl)pyridazin-3-yl]{[(3-fluoro(2-pyridyl))cyclobutyl]methyl}amine



352.1 B

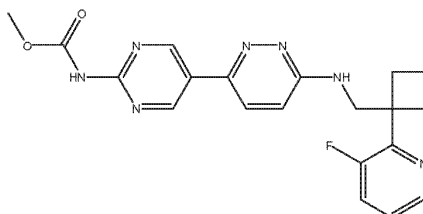
N-{5-[6-({[(3-fluoro-2-pyridyl)cyclobutyl]methyl}amino)pyridazin-3-yl]pyrimidin-2-yl}acetamide



394.2

C

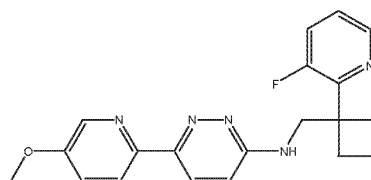
N-{5-[6-({[(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]pyrimidin-2-yl}methoxycarboxamide



410.1

D

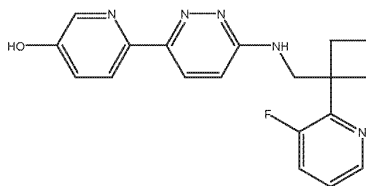
{[(3-fluoro(2-pyridyl))cyclobutyl]methyl}[6-(5-methoxy(2-pyridyl))pyridazin-3-yl]amine



366.2

B

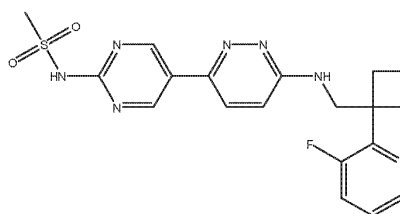
6-[6-({[(3-fluoro-2-pyridyl)cyclobutyl]methyl}amino)pyridazin-3-yl]pyridin-3-ol



352.1

A

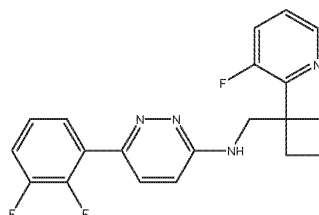
{5-[6-({[(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]pyrimidin-2-yl}(methylsulfonyl)amine



430.0

D

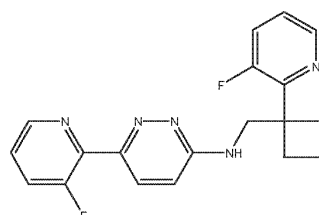
[6-(2,3-difluorophenyl)pyridazin-3-yl]{[(3-fluoro(2-pyridyl))cyclobutyl]methyl}amine



371.0

A

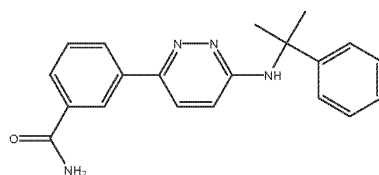
{[(3-fluoro(2-pyridyl))cyclobutyl]methyl}[6-(3-fluoro(2-pyridyl))pyridazin-3-yl]amine



354.0

B

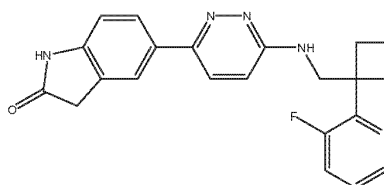
3-{6-[(1-methyl-1-phenylethyl)amino]pyridazin-3-yl}benzamide



333.2

B

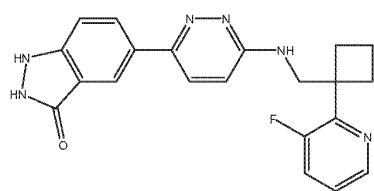
5-[6-({[(3-fluoro-2-pyridyl)cyclobutyl]methyl}amino)pyridazin-3-yl]indolin-2-one



390.1

B

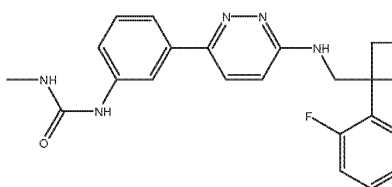
5-[6-({[(3-fluoro-2-pyridyl)cyclobutyl]methyl}amino)pyridazin-3-yl]-1H-2-hydroindazol-3-one



391.1

A

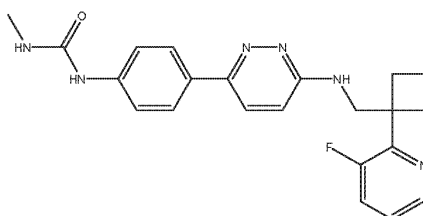
N-{3-[6-({[(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]phenyl}(methylamino)carboxamide



407.2

A

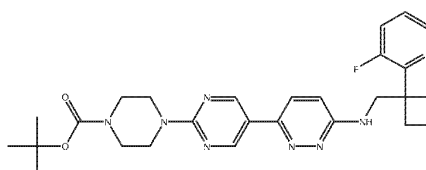
N-{4-[6-({[(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]phenyl}(methylamino)carboxamide



407.2

A

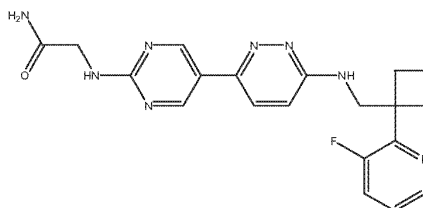
tert-butyl 4-{5-[6-({[(3-fluoro-2-pyridyl)cyclobutyl]methyl}amino)pyridazin-3-yl]piperazinecarboxylate



521.3

D

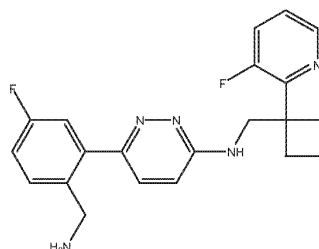
2-({5-[6-({[(3-fluoro-2-pyridyl)cyclobutyl]methyl}amino)pyridazin-3-yl]pyrimidin-2-yl}amino)acetamide



409.1

C

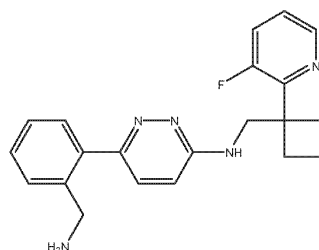
{6-[2-(aminomethyl)-5-fluorophenyl]pyridazin-3-yl}{[(3-fluoro(2-pyridyl))cyclobutyl]methyl}amine



382.2

C

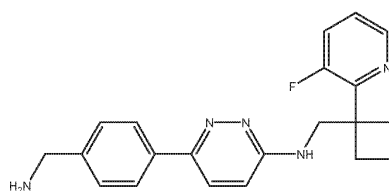
{6-[2-(aminomethyl)phenyl]pyridazin-3-yl}{[(3-fluoro(2-pyridyl))cyclobutyl]methyl}amine



364.2

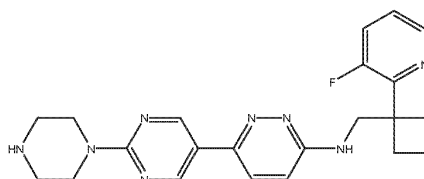
D

{6-[4-(aminomethyl)phenyl]pyridazin-3-yl}{[(3-fluoro(2-pyridyl))cyclobutyl]methyl}amine
 {[(3-fluoro(2-pyridyl))cyclobutyl]methyl}[6-(2-piperazinylpyrimidin-5-yl)pyridazin-3-yl]amine



364.2

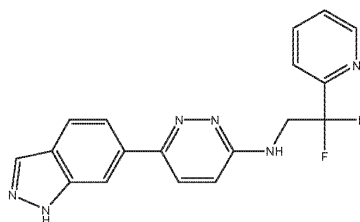
B



421.2

D

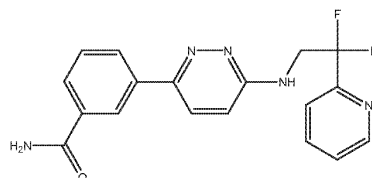
(6-(1H-indazol-6-yl)pyridazin-3-yl)(2,2-difluoro-2-(2-pyridyl)ethyl)amine



353.1

D

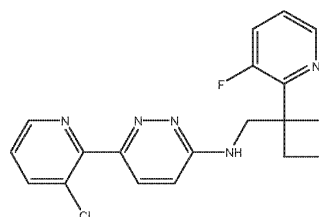
3-{6-[(2,2-difluoro-2-(2-pyridyl)ethyl)amino]pyridazin-3-yl}benzamide



356.1

D

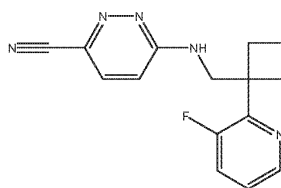
[6-(3-chloro(2-pyridyl))pyridazin-3-yl]{[(3-fluoro(2-pyridyl))cyclobutyl]methyl}amine



370.1

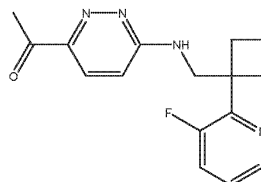
C

6-([[(3-fluoro-2-pyridyl)cyclobutyl]methyl]amino)pyridazine-3-carbonitrile



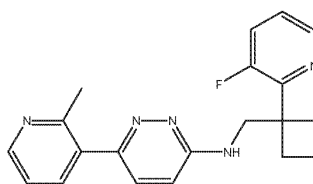
284.0 D

1-[6-([[(3-fluoro-2-pyridyl)cyclobutyl]methyl]amino)pyridazin-3-yl]ethan-1-one



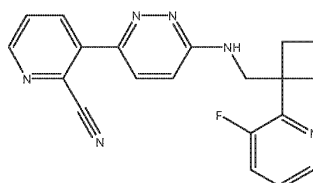
301.1 D

[[(3-fluoro(2-pyridyl))cyclobutyl]methyl][6-(2-methyl(3-pyridyl))pyridazin-3-yl]amine



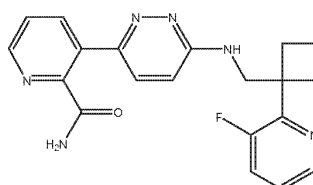
350.2 C

3-[6-([[(3-fluoro-2-pyridyl)cyclobutyl]methyl]amino)pyridazin-3-yl]pyridine-2-carbonitrile



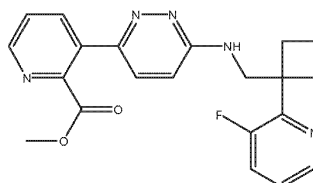
361.1 C

3-[6-([[(3-fluoro-2-pyridyl)cyclobutyl]methyl]amino)pyridazin-3-yl]pyridine-2-carboxamide



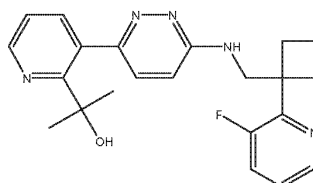
379.2 C

methyl 3-[6-([[(3-fluoro-2-pyridyl)cyclobutyl]methyl]amino)pyridazin-3-yl]pyridine-2-carboxylate

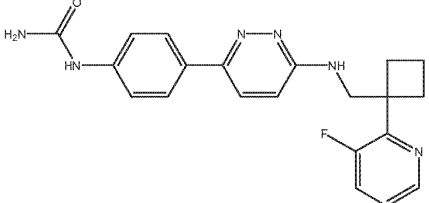
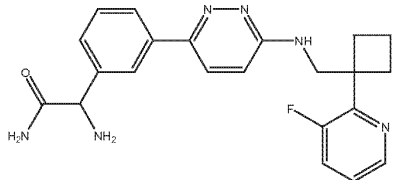
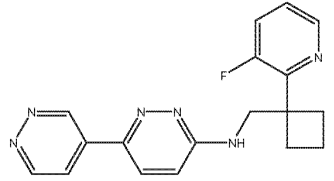
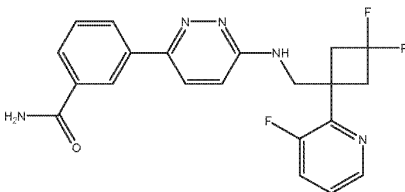
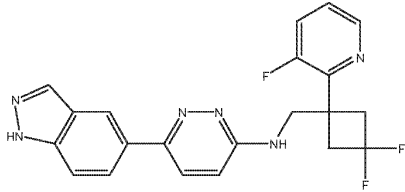
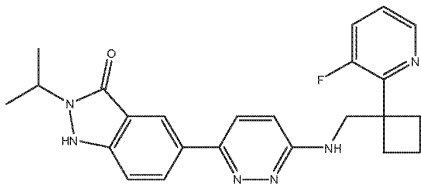
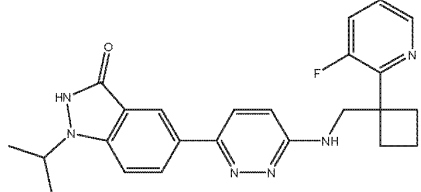


394.2 C

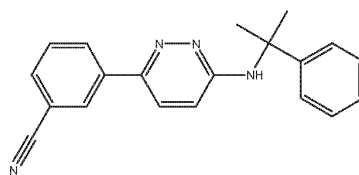
2-{3-[6-([[(3-fluoro-2-pyridyl)cyclobutyl]methyl]amino)pyridazin-3-yl]-2-pyridyl}propan-2-ol



394.2 D

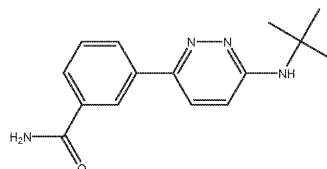
amino-N-{4-[6-({[(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]phenyl}amide		393.0	A
2-amino-2-{3-[6-({[(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]phenyl}acetamide		407.0	C
{[(3-fluoro(2-pyridyl))cyclobutyl]methyl}{6-pyridazin-4-ylpyridazin-3-yl}amine		337.2	D
3-[6-({[3,3-difluoro-1-(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]benzamide		414.0	B
(6-(1H-indazol-5-yl)pyridazin-3-yl){[3,3-difluoro-1-(3-fluoro(2-pyridyl))cyclobutyl]methyl}amine		411.0	B
5-[6-({[(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]-2-(methylethyl)-1H-2-hydroindazol-3-one		433.1	B
5-[6-({[(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]-1-(methylethyl)-1H-2-hydroindazol-3-one		433.1	C

3-{6-[(1-methyl-1-phenylethyl)amino]pyridazin-3-yl}benzenecarbonitrile



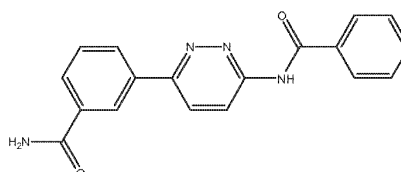
315.0 B

3-{6-[(tert-butyl)amino]pyridazin-3-yl}benzamide



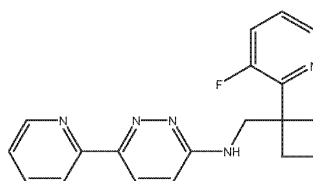
271.1 C

3-{6-(phenylcarbonylamino)pyridazin-3-yl}benzamide



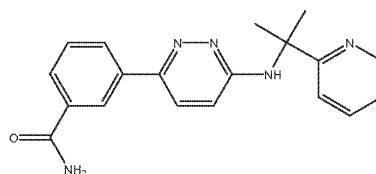
319.1 D

{[(3-fluoro(2-pyridyl)cyclobutyl)methyl](6-(2-pyridyl)pyridazin-3-yl)amine



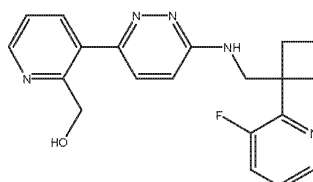
336.1 B

3-{6-[(1-methyl-1-(2-pyridyl)ethyl)amino]pyridazin-3-yl}benzamide



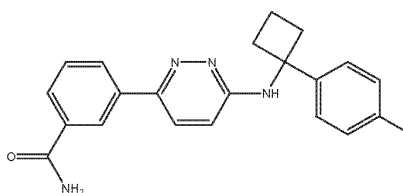
334.1 D

{3-[6-({[(3-fluoro-2-pyridyl)cyclobutyl)methyl]amino)pyridazin-3-yl]-2-pyridyl}methan-1-ol



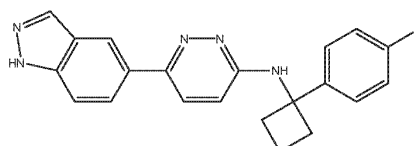
366.2 C

3-{6-[(4-fluorophenyl)cyclobutyl]amino}pyridazin-3-yl}benzamide

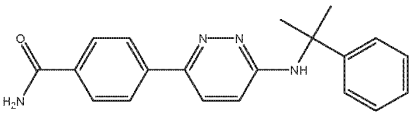
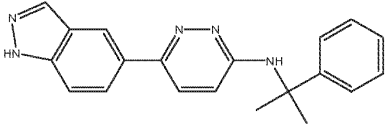
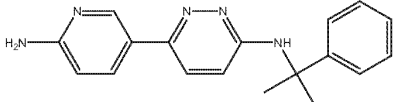
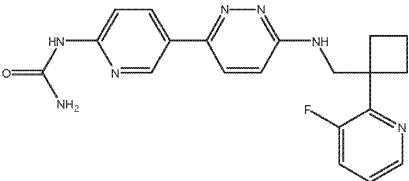
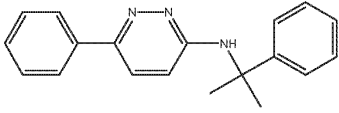
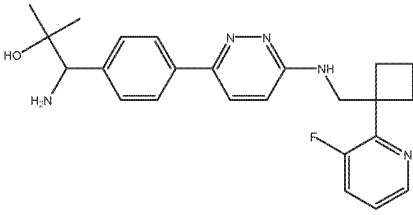
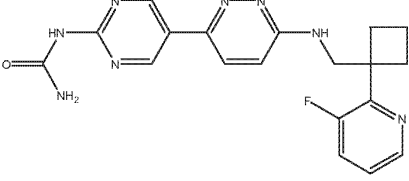
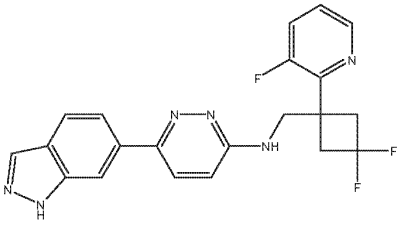


363.1 A

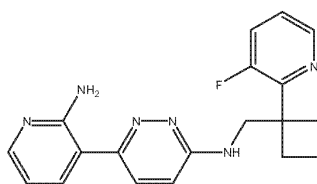
(6-{1H-indazol-5-yl}pyridazin-3-yl)[(4-fluorophenyl)cyclobutyl]amine



360.1 A

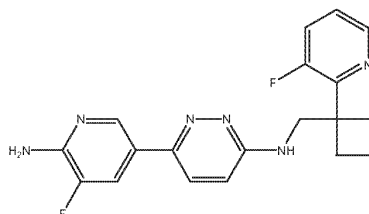
4-{6-[(1-methyl-1-phenylethyl)amino]pyridazin-3-yl}benzamide		333.1	C
(6-(1H-indazol-5-yl)pyridazin-3-yl)(1-methyl-1-phenylethyl)amine		330.2	B
[6-(6-amino(3-pyridyl))pyridazin-3-yl](1-methyl-1-phenylethyl)amine		306.2	B
amino-N-{5-[6-({[(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl](2-pyridyl)}amide		394.2	B
(1-methyl-1-phenylethyl)(6-phenylpyridazin-3-yl)amine		290.1	B
1-amino-1-{4-[6-({[(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]phenyl}-2-methylpropan-2-ol		422.2	D
amino-N-{5-[6-({[(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]pyrimidin-2-yl}amide		395.2	D
(6-(1H-indazol-6-yl)pyridazin-3-yl){[3,3-difluoro-1-(3-fluoro(2-pyridyl))cyclobutyl]methyl}amine		411.1	B

[6-(2-amino(3-pyridyl))pyridazin-3-yl][{(3-fluoro(2-pyridyl))cyclobutyl}methyl]amine



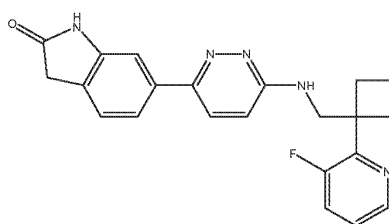
351.1 B

[6-(6-amino-5-fluoro(3-pyridyl))pyridazin-3-yl][{(3-fluoro(2-pyridyl))cyclobutyl}methyl]amine



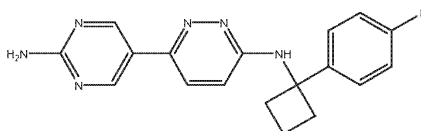
369.1 A

6-[6-({(3-fluoro(2-pyridyl)cyclobutyl}methyl)amino)pyridazin-3-yl]indolin-2-one



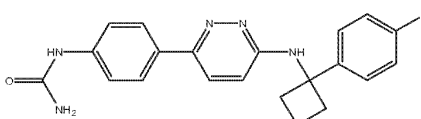
390.1 B

[6-(2-aminopyrimidin-5-yl)pyridazin-3-yl][(4-fluorophenyl)cyclobutyl]amine



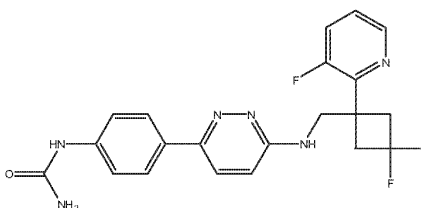
337.0 B

amino-N-[4-(6-({(4-fluorophenyl)cyclobutyl}amino)pyridazin-3-yl)phenyl]amide



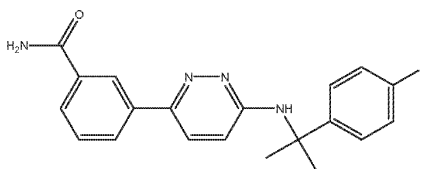
378.2 A

amino-N-{4-[6-({(3,3-difluoro-1-(3-fluoro(2-pyridyl))cyclobutyl}methyl)amino)pyridazin-3-yl]phenyl}amide



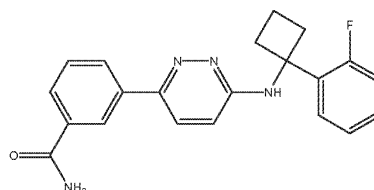
429.0 A

3-(6-({1-(4-fluorophenyl)-isopropyl}amino)pyridazin-3-yl)benzamide



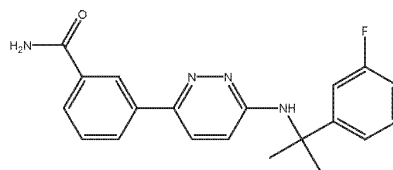
351.1 B

3-(6-({(2-fluorophenyl)cyclobutyl}amino)pyridazin-3-yl)benzamide



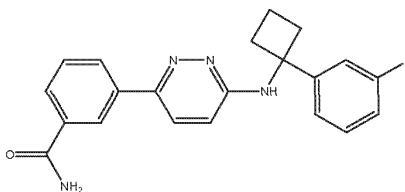
363.2 A

3-(6-[[1-(3-fluorophenyl)-
isopropyl]amino]pyridazin-3-
yl)benzamide



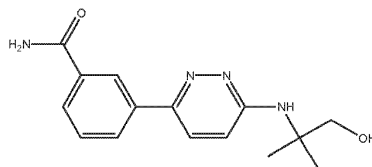
351.1 B

3-(6-[[3-
fluorophenyl]cyclobutyl]amino]pyri-
dazin-3-yl)benzamide



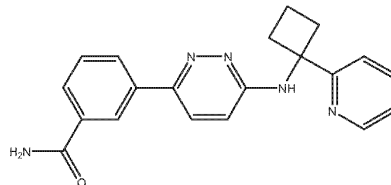
363.2 B

3-(6-[(2-hydroxy-tert-
butyl)amino]pyridazin-3-
yl)benzamide



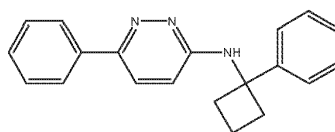
287.1 D

3-(6-[(2-
pyridyl)cyclobutyl]amino]pyridazin-
3-yl)benzamide



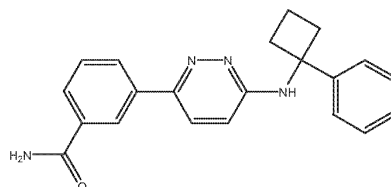
346.1 D

(phenylcyclobutyl)(6-
phenylpyridazin-3-yl)amine



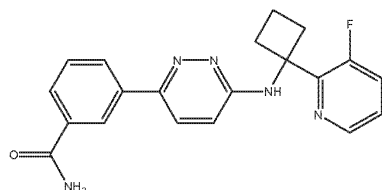
302.2 B

3-(6-
[(phenylcyclobutyl)amino]pyridazin-
3-yl)benzamide



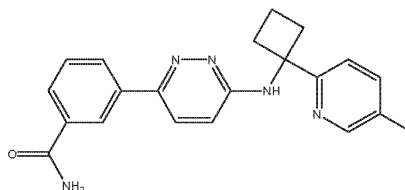
345.1 B

3-(6-[[3-fluoro-2-
pyridyl]cyclobutyl]amino]pyridazin-
3-yl)benzamide



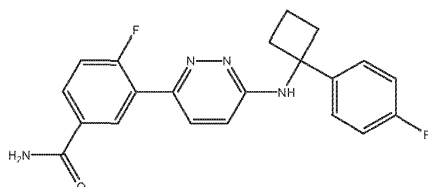
364.1 B

3-(6-[[5-fluoro-2-
pyridyl]cyclobutyl]amino]pyridazin-
3-yl)benzamide



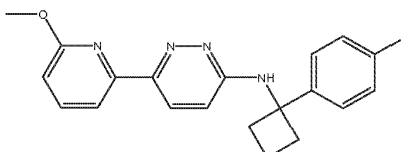
364.1 B

4-fluoro-3-(6-[[4-fluorophenyl]cyclobutyl]amino)pyridazin-3-yl)benzamide



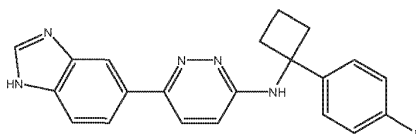
381.1 A

[(4-fluorophenyl)cyclobutyl][6-(6-methoxy(2-pyridyl))pyridazin-3-yl]amine



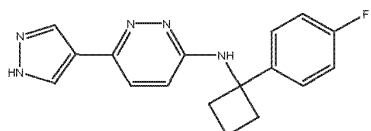
351.1 B

(6-benzimidazol-5-ylpyridazin-3-yl)[(4-fluorophenyl)cyclobutyl]amine



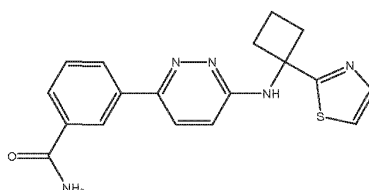
360.1 A

[(4-fluorophenyl)cyclobutyl](6-pyrazol-4-ylpyridazin-3-yl)amine



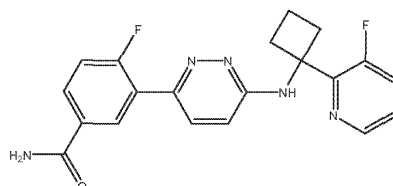
310.1 B

3-(6-[(1,3-thiazol-2-yl)cyclobutyl]amino)pyridazin-3-yl)benzamide



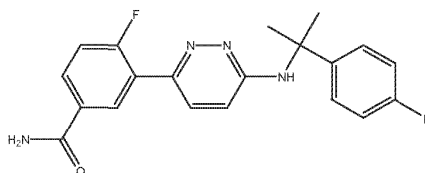
352.2 D

4-fluoro-3-(6-[[3-fluoro(2-pyridyl))cyclobutyl]amino}pyridazin-3-yl)benzamide



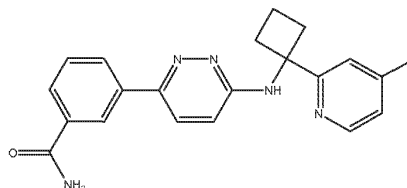
382.1 B

4-fluoro-3-(6-[[1-(4-fluorophenyl)-isopropyl]amino}pyridazin-3-yl)benzamide



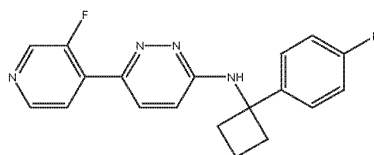
369.1 A

3-(6-[[4-methoxy-2-pyridyl]cyclobutyl]amino)pyridazin-3-yl)benzamide



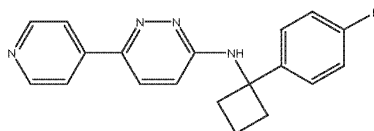
376.0 D

[6-(3-fluoro(4-pyridyl))pyridazin-3-yl][(4-fluorophenyl)cyclobutyl]amine



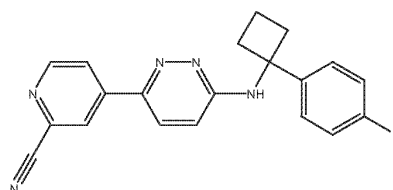
339.2 B

[(4-fluorophenyl)cyclobutyl](6-(4-pyridyl)pyridazin-3-yl)amine



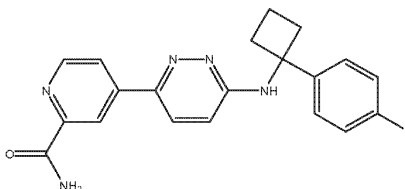
321.2 B

4-(6-[(4-fluorophenyl)cyclobutyl]amino)pyridazin-3-yl)pyridine-2-carbonitrile



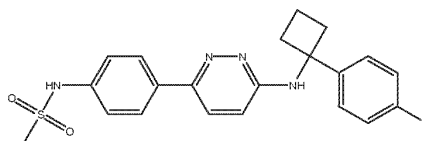
346.2 B

4-(6-[(4-fluorophenyl)cyclobutyl]amino)pyridazin-3-yl)pyridine-2-carboxamide



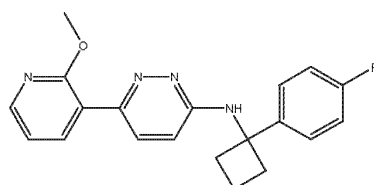
364.2 B

[4-(6-[(4-fluorophenyl)cyclobutyl]amino)pyridazin-3-yl)phenyl](methylsulfonyl)amine



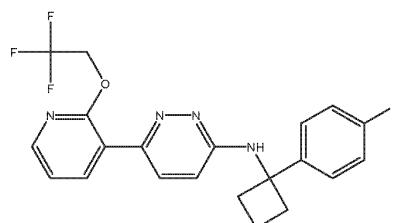
413.1 B

[(4-fluorophenyl)cyclobutyl][6-(2-methoxy(3-pyridyl))pyridazin-3-yl]amine



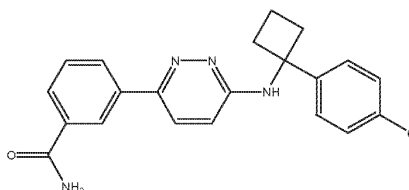
351.2 A

[(4-fluorophenyl)cyclobutyl][6-[2-(2,2,2-trifluoroethoxy)(3-pyridyl)]pyridazin-3-yl]amine



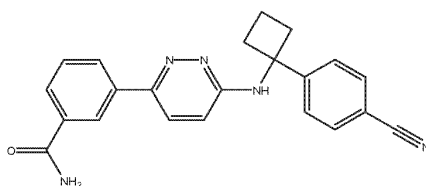
419.2 B

3-(6-[(4-chlorophenyl)cyclobutyl]amino)pyridazin-3-yl)benzamide



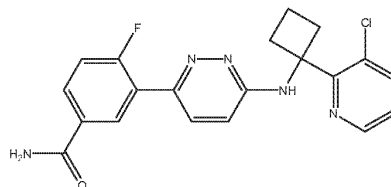
379.1 B

3-(6-[[4-(4-cyanophenyl)cyclobutyl]amino]pyridazin-3-yl)benzamide



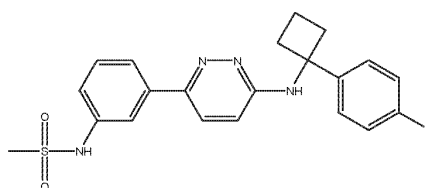
370.1 D

3-(6-[[3-chloro(2-pyridyl))cyclobutyl]amino]pyridazin-3-yl)-4-fluorobenzamide



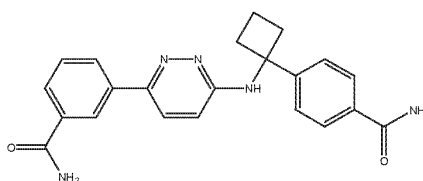
398.1 A

[3-(6-[[4-(4-fluorophenyl)cyclobutyl]amino]pyridazin-3-yl)phenyl](methylsulfonyl)amine



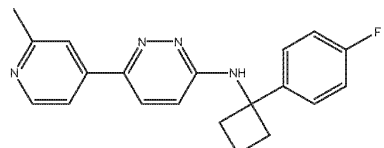
413.0 A

3-(6-[[4-(4-carbamoylphenyl)cyclobutyl]amino]pyridazin-3-yl)benzamide



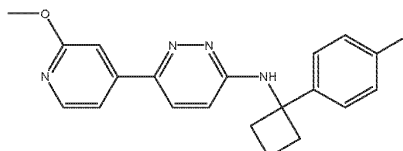
388.2 D

[[4-(4-fluorophenyl)cyclobutyl][6-(2-methyl(4-pyridyl))pyridazin-3-yl]amine



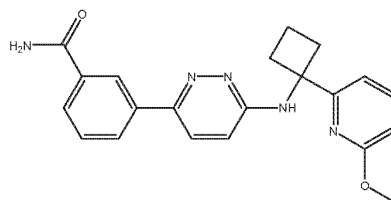
335.2 B

[[4-(4-fluorophenyl)cyclobutyl][6-(2-methoxy(4-pyridyl))pyridazin-3-yl]amine



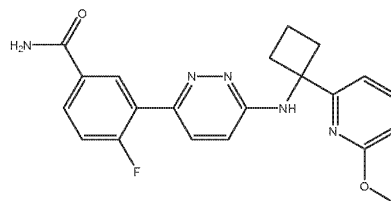
351.2 B

3-(6-[[6-(6-methoxy-2-pyridyl)cyclobutyl]amino]pyridazin-3-yl)benzamide



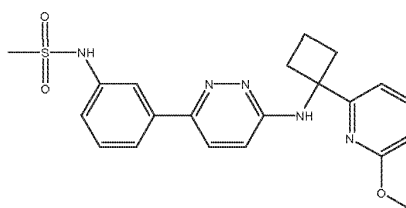
376.1 B

4-fluoro-3-(6-[[6-(6-methoxy(2-pyridyl))cyclobutyl]amino]pyridazin-3-yl)benzamide



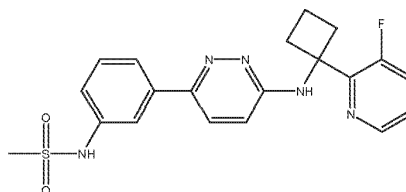
394.1 A

[3-(6-([6-methoxy(2-pyridyl))cyclobutyl]amino)pyridazin-3-yl)phenyl](methylsulfonyl)amine



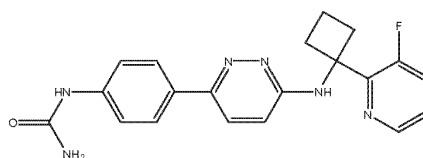
426.1 B

[3-(6-([3-fluoro(2-pyridyl))cyclobutyl]amino)pyridazin-3-yl)phenyl](methylsulfonyl)amine



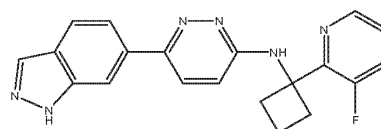
414.1 B

amino-N-[4-(6-([3-fluoro(2-pyridyl))cyclobutyl]amino)pyridazin-3-yl)phenyl]amide



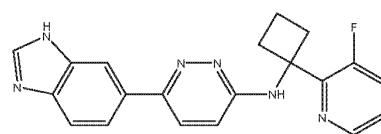
379.2 B

(6-(1H-indazol-6-yl)pyridazin-3-yl)([3-fluoro(2-pyridyl))cyclobutyl]amine



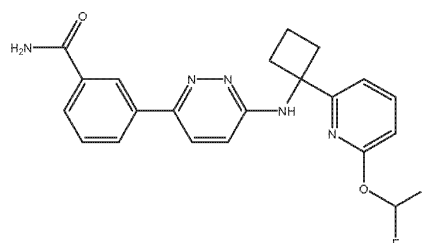
361.1 B

(6-benzimidazol-6-ylpyridazin-3-yl)([3-fluoro(2-pyridyl))cyclobutyl]amine



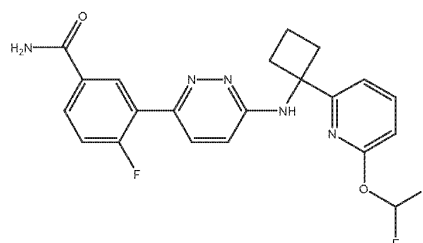
361.2 B

3-[6-([6-(difluoromethoxy)-2-pyridyl]cyclobutyl]amino)pyridazin-3-yl]benzamide

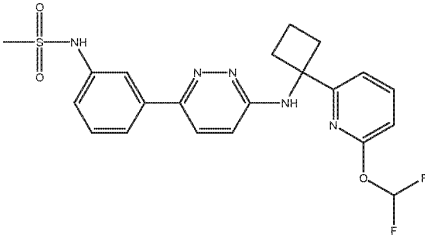
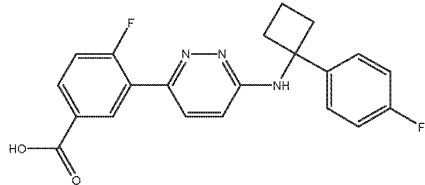
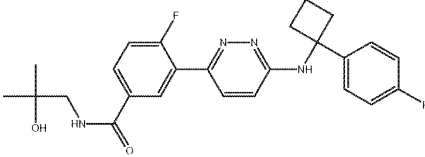
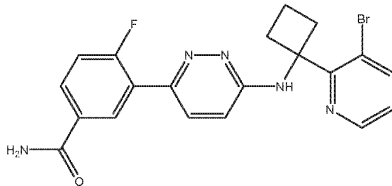
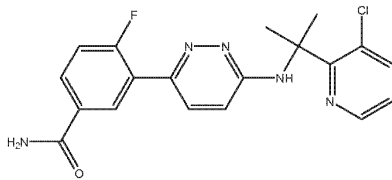
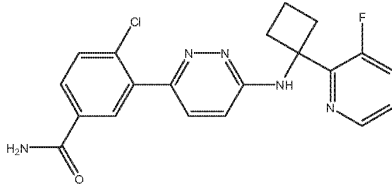
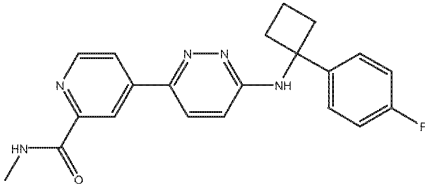


412.0 A

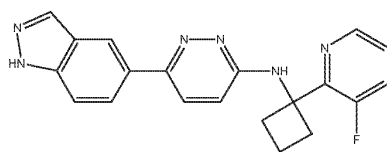
3-[6-([6-(difluoromethoxy)(2-pyridyl)]cyclobutyl]amino)pyridazin-3-yl]-4-fluorobenzamide



430.1 A

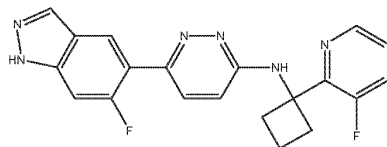
{3-[6-({[6-(difluoromethoxy)(2-pyridyl)]cyclobutyl}amino)pyridazin-3-yl]phenyl}(methylsulfonyl)amine		462.1	A
4-fluoro-3-(6-({[4-fluorophenyl]cyclobutyl}amino)pyridazin-3-yl)benzoic acid		382.2	B
[4-fluoro-3-(6-({[4-fluorophenyl]cyclobutyl}amino)pyridazin-3-yl)phenyl]-N-(2-hydroxy-2-methylpropyl)carboxamide		453.2	B
3-(6-({[3-bromo(2-pyridyl)]cyclobutyl}amino)pyridazin-3-yl)-4-fluorobenzamide		442.1	A
3-(6-({[1-(3-chloro(2-pyridyl))-isopropyl]amino}pyridazin-3-yl)-4-fluorobenzamide		386.1	B
4-chloro-3-(6-({[3-fluoro(2-pyridyl)]cyclobutyl}amino)pyridazin-3-yl)benzamide		398.1	B
[4-(6-({[4-fluorophenyl]cyclobutyl}amino)pyridazin-3-yl)(2-pyridyl)]-N-methylcarboxamide		378.2	B

(6-(1H-indazol-5-yl)pyridazin-3-yl)[(3-fluoro(2-pyridyl))cyclobutyl]amine



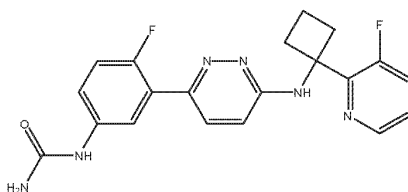
361.1 B

[6-(6-fluoro(1H-indazol-5-yl))pyridazin-3-yl][(3-fluoro(2-pyridyl))cyclobutyl]amine



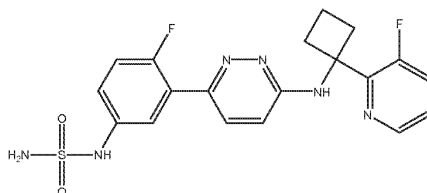
379.1 B

amino-N-[4-fluoro-3-(6-((3-fluoro(2-pyridyl))cyclobutyl)amino)pyridazin-3-yl]phenyl]amide



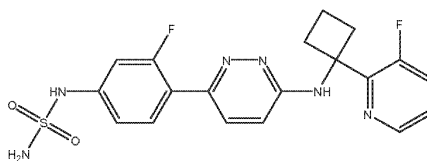
398.1 B

amino[4-fluoro-3-(6-((3-fluoro(2-pyridyl))cyclobutyl)amino)pyridazin-3-yl]phenyl]sulfonamide



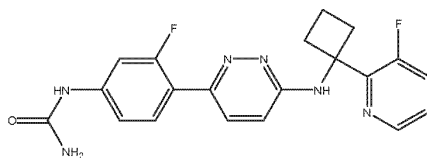
433.1 B

amino[3-fluoro-4-(6-((3-fluoro(2-pyridyl))cyclobutyl)amino)pyridazin-3-yl]phenyl]sulfonamide



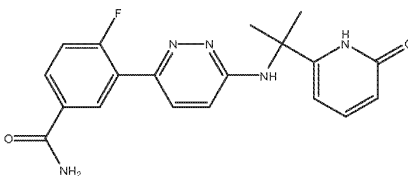
433.1 B

amino-N-[3-fluoro-4-(6-((3-fluoro(2-pyridyl))cyclobutyl)amino)pyridazin-3-yl]phenyl]amide



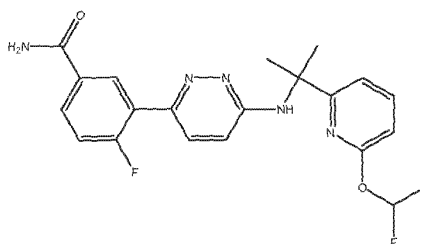
397.1 B

4-fluoro-3-(6-([1-methyl-1-(6-oxo(2-hydropyridyl))ethyl]amino)pyridazin-3-yl)benzamide



368.2 D

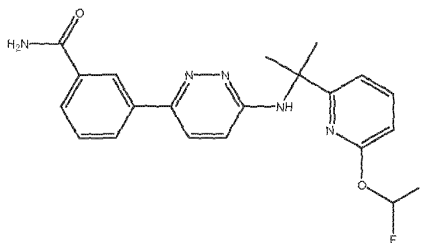
3-[6-({1-[6-(difluoromethoxy)(2-pyridyl)]-isopropyl}amino)pyridazin-3-yl]-4-fluorobenzamide



418.1

A

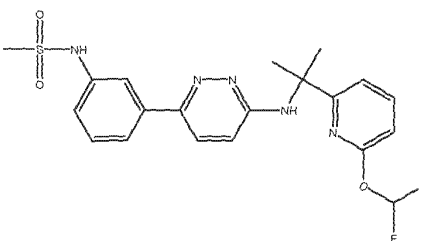
3-[6-({1-[6-(difluoromethoxy)(2-pyridyl)]-isopropyl}amino)pyridazin-3-yl]benzamide



400.2

B

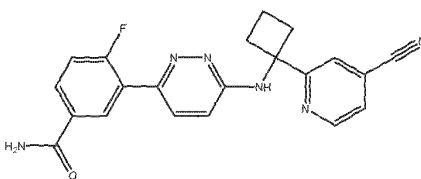
{3-[6-({1-[6-(difluoromethoxy)(2-pyridyl)]-isopropyl}amino)pyridazin-3-yl]phenyl}(methylsulfonyl)amine



450.1

A

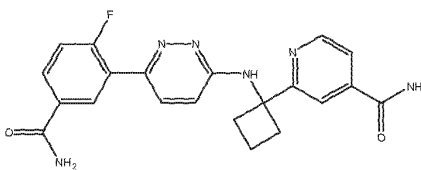
3-(6-(((4-cyano(2-pyridyl))cyclobutyl)amino)pyridazin-3-yl)-4-fluorobenzamide



389.1

D

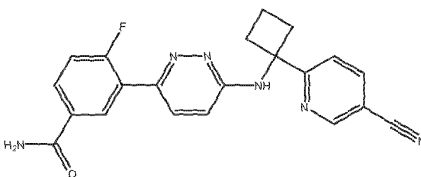
2-({[6-(3-carbamoyl-6-fluorophenyl)pyridazin-3-yl]amino)cyclobutyl}pyridine-4-carboxamide



407.1

D

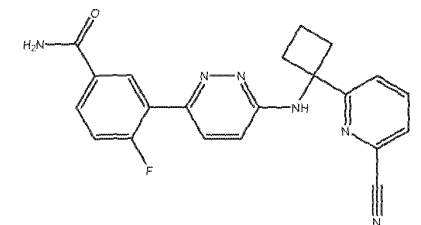
3-(6-(((5-cyano(2-pyridyl))cyclobutyl)amino)pyridazin-3-yl)-4-fluorobenzamide



389.2

D

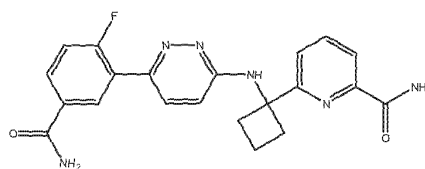
3-(6-(((6-cyano(2-pyridyl))cyclobutyl)amino)pyridazin-3-yl)-4-fluorobenzamide



389.2

B

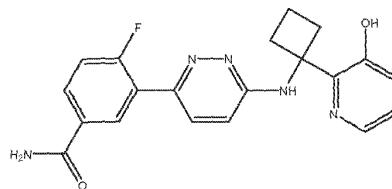
6-({[6-(3-carbamoyl-6-fluorophenyl)pyridazin-3-yl]amino}cyclobutyl)pyridine-2-carboxamide



407.2

D

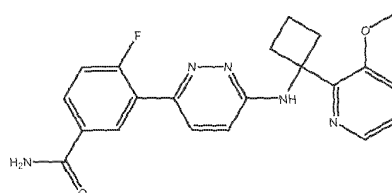
4-fluoro-3-(6-({[3-hydroxy(2-pyridyl)]cyclobutyl}amino)pyridazin-3-yl)benzamide



380.2

D

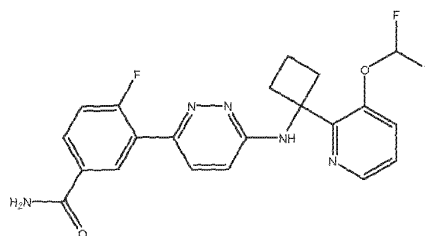
4-fluoro-3-(6-({[3-methoxy(2-pyridyl)]cyclobutyl}amino)pyridazin-3-yl)benzamide



394.2

C

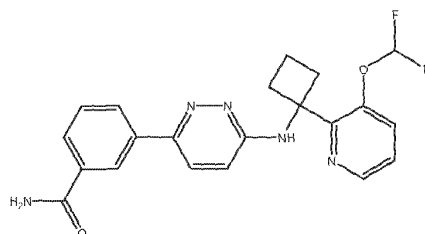
3-[6-({[3-(difluoromethoxy)(2-pyridyl)]cyclobutyl}amino)pyridazin-3-yl]-4-fluorobenzamide



430.2

C

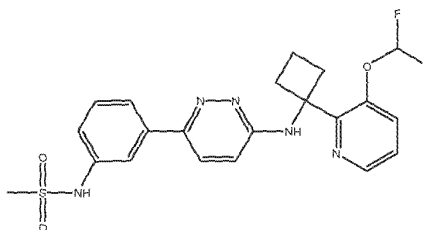
3-[6-({[3-(difluoromethoxy)-2-pyridyl]cyclobutyl}amino)pyridazin-3-yl]benzamide



412.2

D

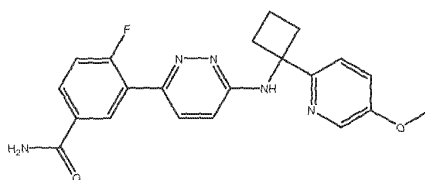
{3-[6-({[3-(difluoromethoxy)(2-pyridyl)]cyclobutyl}amino)pyridazin-3-yl]phenyl}(methylsulfonyl)amine



462.2

C

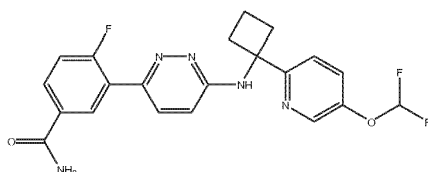
4-fluoro-3-(6-({[5-methoxy(2-pyridyl)]cyclobutyl}amino)pyridazin-3-yl)benzamide



394.2

D

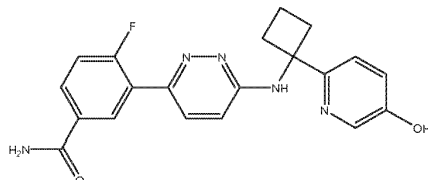
3-[6-{{[5-(difluoromethoxy)(2-pyridyl))cyclobutyl]amino}pyridazin-3-yl]-4-fluorobenzamide



430.1

D

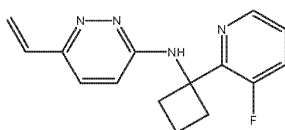
4-fluoro-3-(6-{{[5-hydroxy(2-pyridyl))cyclobutyl]amino}pyridazin-3-yl)benzamide



380.1

D

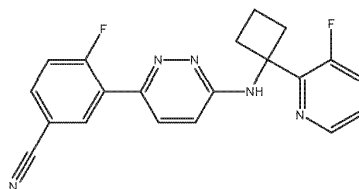
{{[3-fluoro(2-pyridyl))cyclobutyl]}(6-vinylpyridazin-3-yl)amine



271.1

D

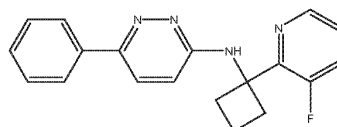
4-fluoro-3-(6-{{[3-fluoro(2-pyridyl))cyclobutyl]amino}pyridazin-3-yl)benzenecarbonitrile



364.1

B

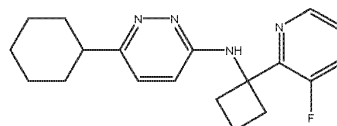
{{[3-fluoro(2-pyridyl))cyclobutyl]}(6-phenylpyridazin-3-yl)amine



321.1

B

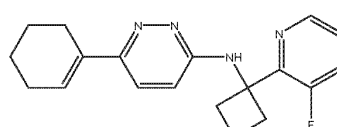
(6-cyclohexylpyridazin-3-yl)[(3-fluoro(2-pyridyl))cyclobutyl]amine



327.2

C

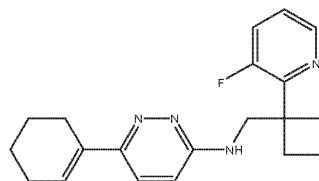
(6-cyclohex-1-enylpyridazin-3-yl)[(3-fluoro(2-pyridyl))cyclobutyl]amine



325.2

C

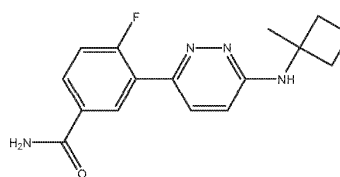
(6-cyclohex-1-enylpyridazin-3-yl)[(3-fluoro(2-pyridyl))cyclobutyl]methylamine



339.2

A

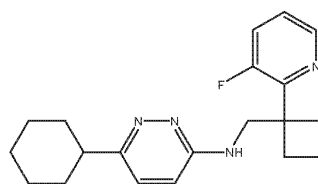
4-fluoro-3-{6-[(methylcyclobutyl)amino]pyridazin-3-yl}benzamide



301.1

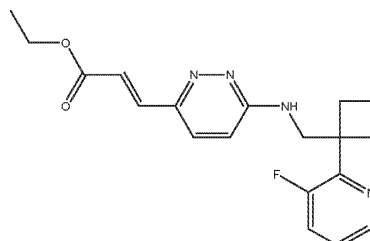
D

(6-cyclohexylpyridazin-3-yl){[(3-fluoro(2-pyridyl))cyclobutyl]methyl}amine



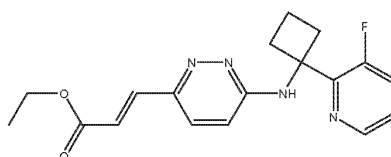
341.2 B

ethyl (2E)-3-[6-({[(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]prop-2-enoate



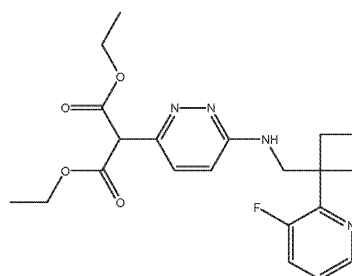
357.2 D

ethyl (2E)-3-[6-({[(3-fluoro(2-pyridyl))cyclobutyl]amino}pyridazin-3-yl]prop-2-enoate



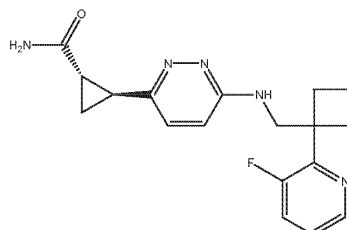
343.1 D

diethyl 2-[6-({[(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]propane-1,3-dioate



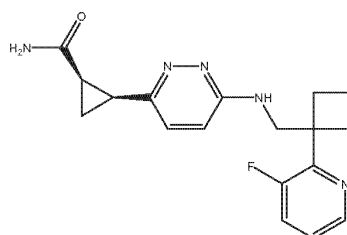
417.2 D

(1S,2S)-2-[6-({[(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]cyclopropanecarboxamide



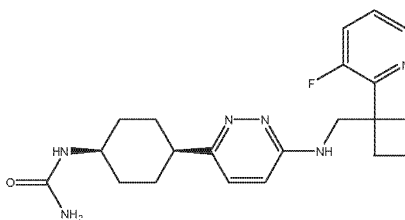
342.2 D

(2S,1R)-2-[6-({[(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]cyclopropanecarboxamide



342.2 D

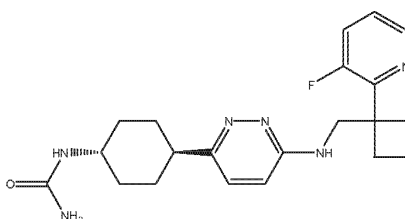
amino-N-{4-[6-{{{(3-fluoro(2-pyridyl))cyclobutyl)methyl}amino}pyridazin-3-yl]cyclohexyl}amide



399.3

B

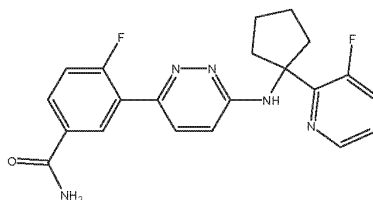
amino-N-{4-[6-{{{(3-fluoro(2-pyridyl))cyclobutyl)methyl}amino}pyridazin-3-yl]cyclohexyl}amide



399.2

C

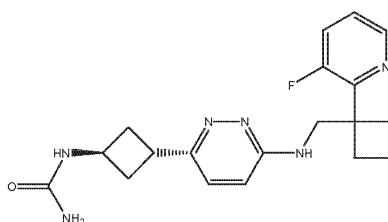
4-fluoro-3-(6-{{{(3-fluoro(2-pyridyl))cyclopentyl}amino}pyridazin-3-yl)benzamide



396.2

A

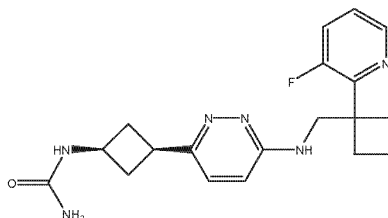
amino-N-{3-[6-{{{(3-fluoro(2-pyridyl))cyclobutyl)methyl}amino}pyridazin-3-yl]cyclobutyl}amide



371.2

C

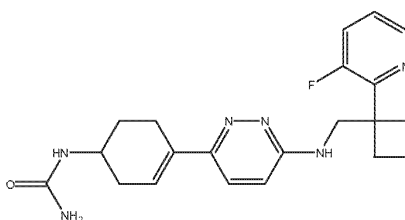
amino-N-{3-[6-{{{(3-fluoro(2-pyridyl))cyclobutyl)methyl}amino}pyridazin-3-yl]cyclobutyl}amide



371.2

B

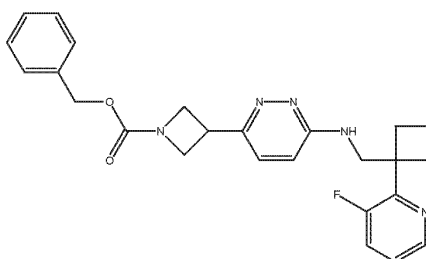
amino-N-{4-[6-{{{(3-fluoro(2-pyridyl))cyclobutyl)methyl}amino}pyridazin-3-yl]cyclohex-3-enyl}amide



397.2

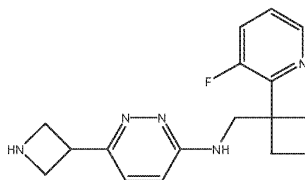
B

phenylmethyl 3-[6-({[(3-fluoro-2-pyridyl)cyclobutyl]methyl}amino)pyridazin-3-yl]azetidinecarboxylate



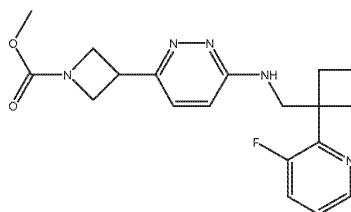
448.2 D

(6-azetidin-3-ylpyridazin-3-yl){[(3-fluoro(2-pyridyl))cyclobutyl]methyl}amine



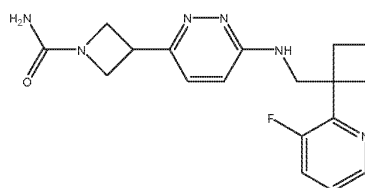
314.2 D

methyl 3-[6-({[(3-fluoro-2-pyridyl)cyclobutyl]methyl}amino)pyridazin-3-yl]azetidinecarboxylate



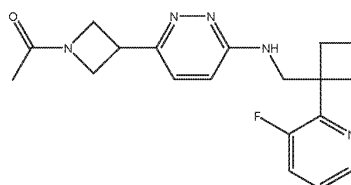
372.2 D

3-[6-({[(3-fluoro-2-pyridyl)cyclobutyl]methyl}amino)pyridazin-3-yl]azetidinecarboxamide



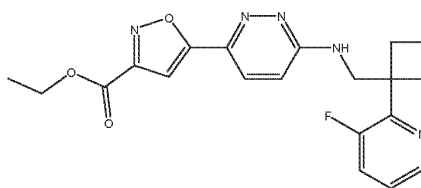
357.2 D

1-acetyl-3-[6-({[(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]azetidine



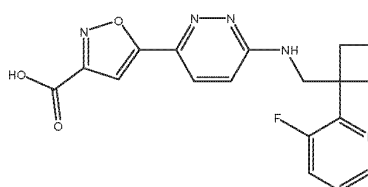
356.2 D

ethyl 5-[6-({[(3-fluoro-2-pyridyl)cyclobutyl]methyl}amino)pyridazin-3-yl]isoxazole-3-carboxylate



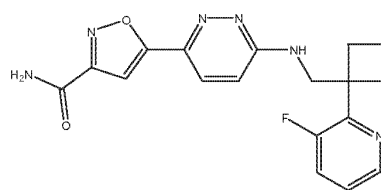
398.2 D

5-[6-({[(3-fluoro-2-pyridyl)cyclobutyl]methyl}amino)pyridazin-3-yl]isoxazole-3-carboxylic acid



370.2 D

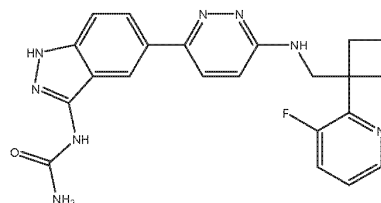
5-[6-({[(3-fluoro-2-pyridyl)cyclobutyl)methyl]amino}pyridazin-3-yl]isoxazole-3-carboxamide



369.2

B

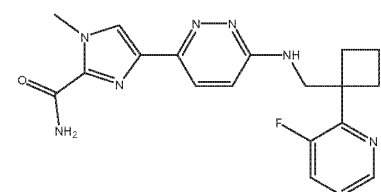
amino-N-{5-[6-({[(3-fluoro(2-pyridyl)cyclobutyl)methyl]amino}pyridazin-3-yl)](1H-indazol-3-yl))}amide



433.3

A

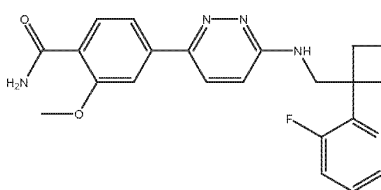
4-[6-({[(3-fluoro(2-pyridyl)cyclobutyl)methyl]amino}pyridazin-3-yl)-1-methylimidazole-2-carboxamide



382.3

D

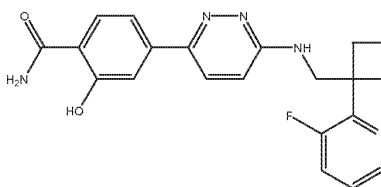
4-[6-({[(3-fluoro(2-pyridyl)cyclobutyl)methyl]amino}pyridazin-3-yl)-2-methoxybenzamide



408.2

B

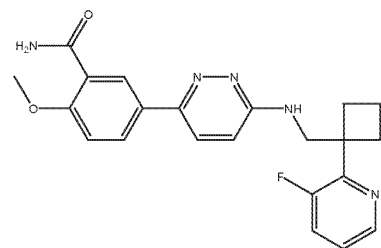
4-[6-({[(3-fluoro(2-pyridyl)cyclobutyl)methyl]amino}pyridazin-3-yl)-2-hydroxybenzamide



394.1

B

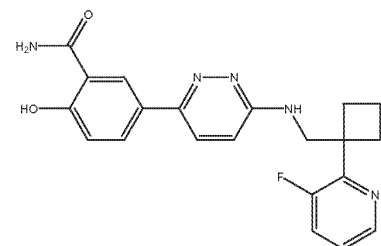
5-[6-({[(3-fluoro(2-pyridyl)cyclobutyl)methyl]amino}pyridazin-3-yl)-2-methoxybenzamide



408.2

B

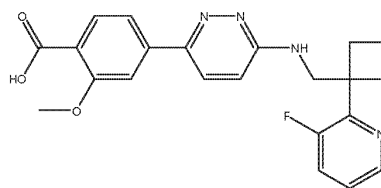
5-[6-({[(3-fluoro(2-pyridyl)cyclobutyl)methyl]amino}pyridazin-3-yl)-2-hydroxybenzamide



394.1

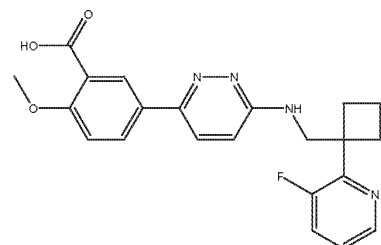
A

4-[6-({[(3-fluoro(2-pyridyl)cyclobutyl)methyl]amino)pyridazin-3-yl]-2-methoxybenzoic acid



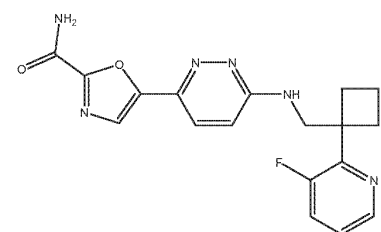
409.2 D

5-[6-({[(3-fluoro(2-pyridyl)cyclobutyl)methyl]amino)pyridazin-3-yl]-2-methoxybenzoic acid



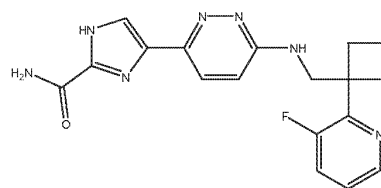
409.2 D

5-[6-({[(3-fluoro(2-pyridyl)cyclobutyl)methyl]amino)pyridazin-3-yl]-1,3-oxazole-2-carboxamide



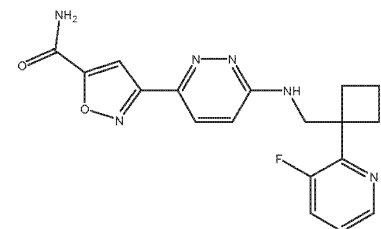
369.2 B

4-[6-({[(3-fluoro(2-pyridyl)cyclobutyl)methyl]amino)pyridazin-3-yl]imidazole-2-carboxamide



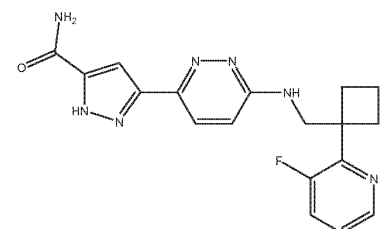
368.2 C

3-[6-({[(3-fluoro(2-pyridyl)cyclobutyl)methyl]amino)pyridazin-3-yl]isoxazole-5-carboxamide



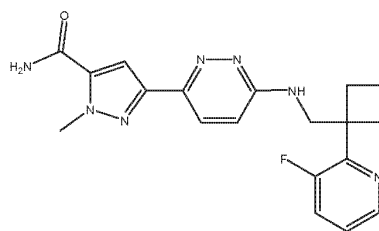
369.2 A

3-[6-({[(3-fluoro(2-pyridyl)cyclobutyl)methyl]amino)pyridazin-3-yl]pyrazole-5-carboxamide



368.3 B

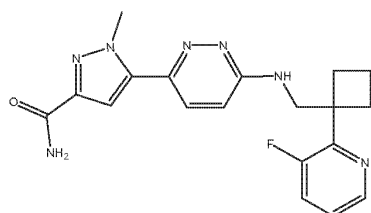
3-[6-({[(3-fluoro(2-pyridyl)cyclobutyl)methyl]amino)pyridazin-3-yl]-1-methylpyrazole-5-carboxamide



382.3

B

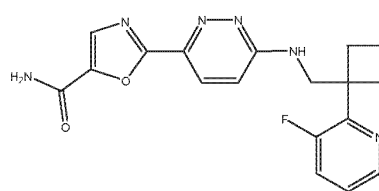
5-[6-({[(3-fluoro(2-pyridyl)cyclobutyl)methyl]amino)pyridazin-3-yl]-1-methylpyrazole-3-carboxamide



382.3

B

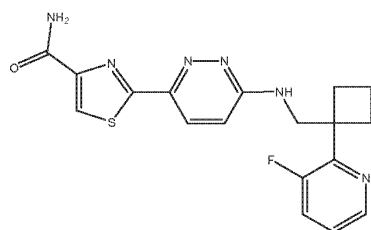
2-[6-({[(3-fluoro(2-pyridyl)cyclobutyl)methyl]amino)pyridazin-3-yl]-1,3-oxazole-5-carboxamide



369.1

B

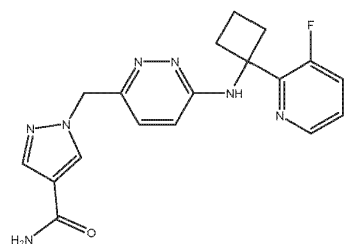
2-[6-({[(3-fluoro(2-pyridyl)cyclobutyl)methyl]amino)pyridazin-3-yl]-1,3-thiazole-4-carboxamide



385.1

D

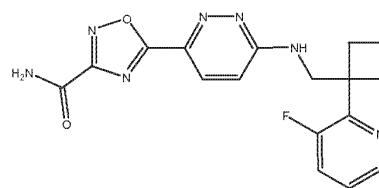
1-[(6-({[(3-fluoro(2-pyridyl)cyclobutyl]amino)pyridazin-3-yl)methyl]pyrazole-4-carboxamide



368.1

D

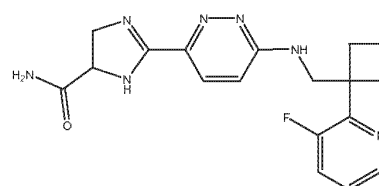
5-[6-({[(3-fluoro(2-pyridyl)cyclobutyl)methyl]amino)pyridazin-3-yl]-1,2,4-oxadiazole-3-carboxamide



370.2

B

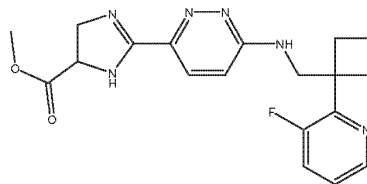
2-[6-({[(3-fluoro(2-pyridyl)cyclobutyl)methyl]amino)pyridazin-3-yl]-2-imidazoline-5-carboxamide



370.3

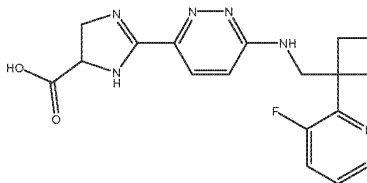
D

methyl 2-[6-({[(3-fluoro-2-pyridyl)cyclobutyl]methyl}amino)pyridazin-3-yl]-2-imidazoline-5-carboxylate



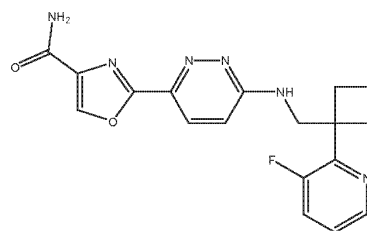
385.3 D

2-[6-({[(3-fluoro-2-pyridyl)cyclobutyl]methyl}amino)pyridazin-3-yl]-2-imidazoline-5-carboxylic acid



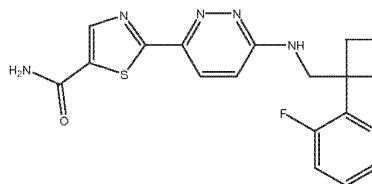
371.3 D

2-[6-({[(3-fluoro-2-pyridyl)cyclobutyl]methyl}amino)pyridazin-3-yl]-1,3-oxazole-4-carboxamide



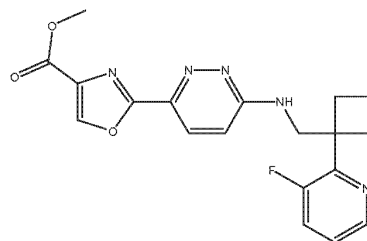
369.2 D

2-[6-({[(3-fluoro-2-pyridyl)cyclobutyl]methyl}amino)pyridazin-3-yl]-1,3-thiazole-5-carboxamide



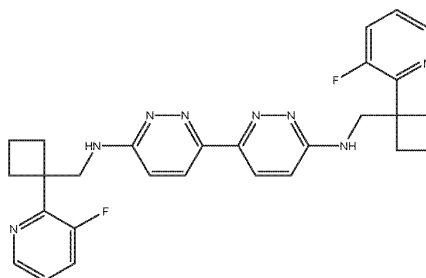
385.2 A

methyl 2-[6-({[(3-fluoro-2-pyridyl)cyclobutyl]methyl}amino)pyridazin-3-yl]-1,3-oxazole-4-carboxylate



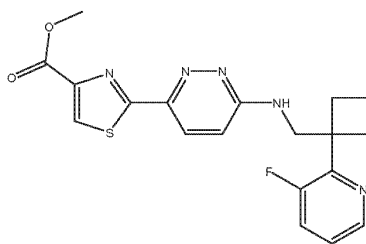
384.2 D

{[(3-fluoro(2-pyridyl))cyclobutyl]methyl}₂[6-({[(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]pyridazin-3-yl]amine



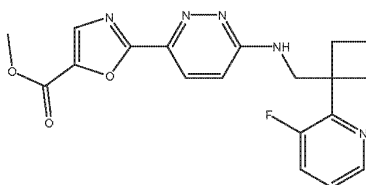
515.4 D

methyl 2-[6-({[(3-fluoro-2-pyridyl)cyclobutyl]methyl}amino)pyridazin-3-yl]-1,3-thiazole-4-carboxylate



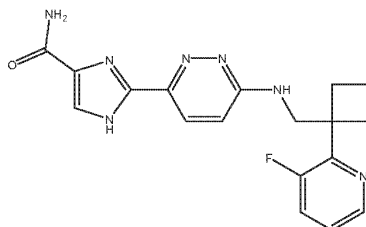
400.2 D

methyl 2-[6-({[(3-fluoro-2-pyridyl)cyclobutyl]methyl}amino)pyridazin-3-yl]-1,3-oxazole-5-carboxylate



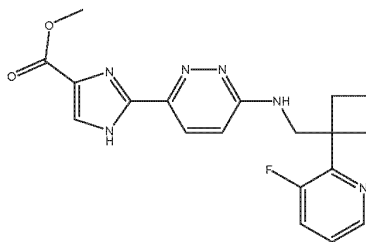
384.2 D

2-[6-({[(3-fluoro-2-pyridyl)cyclobutyl]methyl}amino)pyridazin-3-yl]imidazole-4-carboxamide



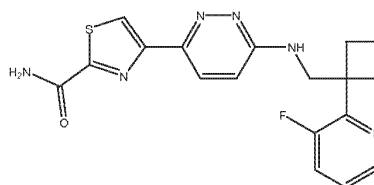
368.2 B

methyl 2-[6-({[(3-fluoro-2-pyridyl)cyclobutyl]methyl}amino)pyridazin-3-yl]imidazole-4-carboxylate



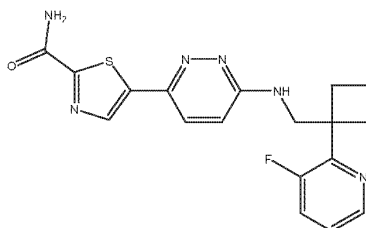
383.3 D

4-[6-({[(3-fluoro-2-pyridyl)cyclobutyl]methyl}amino)pyridazin-3-yl]-1,3-thiazole-2-carboxamide



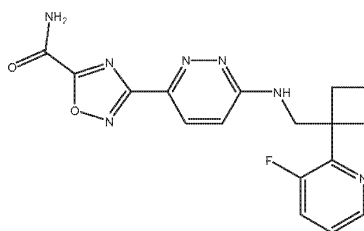
385.2 B

5-[6-({[(3-fluoro-2-pyridyl)cyclobutyl]methyl}amino)pyridazin-3-yl]-1,3-thiazole-2-carboxamide



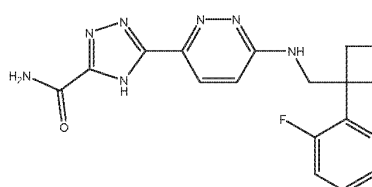
385.2 B

3-[6-({[(3-fluoro-2-pyridyl)cyclobutyl]methyl}amino)pyridazin-3-yl]-1,2,4-oxadiazole-5-carboxamide



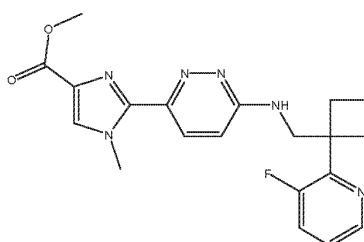
370.1 B

5-[6-({[(3-fluoro-2-pyridyl)cyclobutyl]methyl}amino)pyridazin-3-yl]-4H-1,2,4-triazole-3-carboxamide



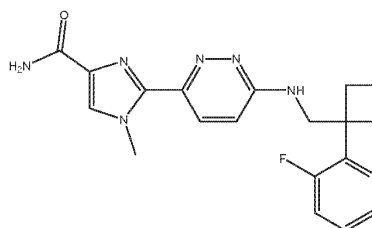
369.2 C

methyl 2-[6-({[(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]-1-methylimidazole-4-carboxylate



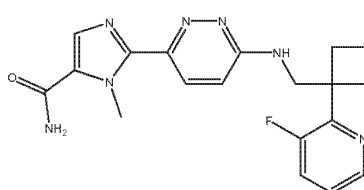
397.3 D

2-[6-({[(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]-1-methylimidazole-4-carboxamide



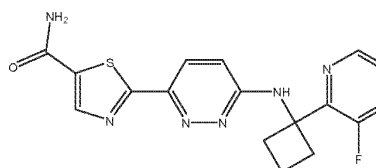
382.3 D

2-[6-({[(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]-1-methylimidazole-5-carboxamide



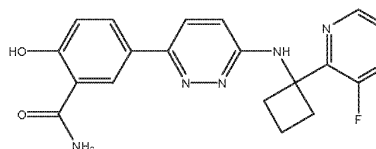
382.3 B

2-(6-({[(3-fluoro-2-pyridyl)cyclobutyl]amino}pyridazin-3-yl)-1,3-thiazole-5-carboxamide



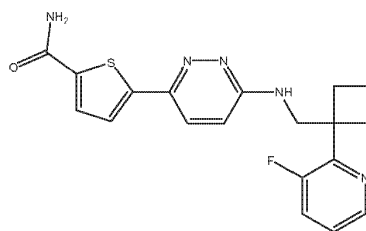
371.2 B

5-(6-({[(3-fluoro(2-pyridyl))cyclobutyl]amino}pyridazin-3-yl)-2-hydroxybenzamide



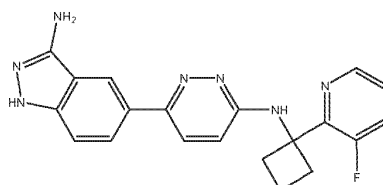
380.1 B

5-[6-({[(3-fluoro-2-pyridyl)cyclobutyl)methyl]amino)pyridazin-3-yl]thiophene-2-carboxamide



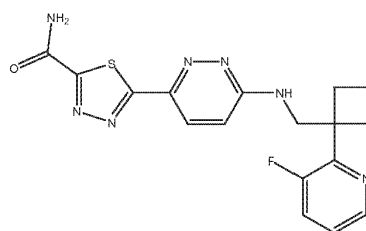
384.1 A

[6-(3-amino(1H-indazol-5-yl))pyridazin-3-yl]({[(3-fluoro(2-pyridyl))cyclobutyl]amine



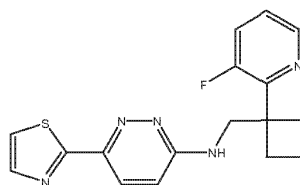
376.2 B

5-[6-({[(3-fluoro-2-pyridyl)cyclobutyl)methyl]amino)pyridazin-3-yl]-1,3,4-thiadiazole-2-carboxamide



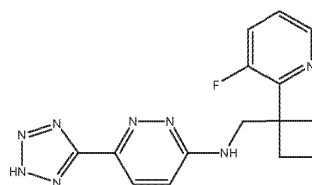
386.1 B

{[(3-fluoro(2-pyridyl))cyclobutyl)methyl](6-(1,3-thiazol-2-yl)pyridazin-3-yl)amine



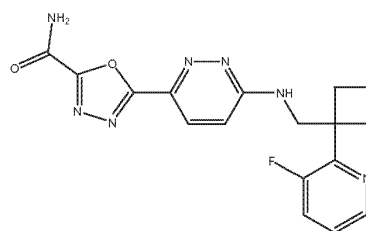
342.1 B

(6-(2H-1,2,3,4-tetraazol-5-yl)pyridazin-3-yl){[(3-fluoro(2-pyridyl))cyclobutyl)methyl]amine



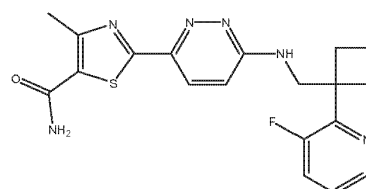
327.2 D

5-[6-({[(3-fluoro-2-pyridyl)cyclobutyl)methyl]amino)pyridazin-3-yl]-1,3,4-oxadiazole-2-carboxamide



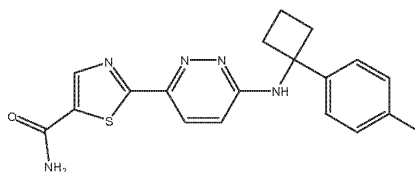
370.2 C

2-[6-({[(3-fluoro(2-pyridyl))cyclobutyl)methyl]amino)pyridazin-3-yl]-4-methyl-1,3-thiazole-5-carboxamide



399.2 B

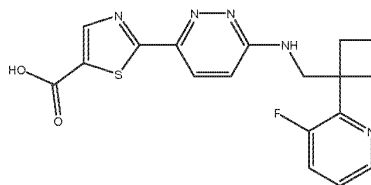
2-(6-[[[4-fluorophenyl]cyclobutyl]amino]pyridazin-3-yl)-1,3-thiazole-5-carboxamide



370.2

B

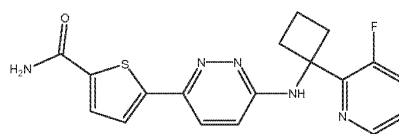
2-[6-([[(3-fluoro-2-pyridyl)cyclobutyl]methyl]amino)pyridazin-3-yl]-1,3-thiazole-5-carboxylic acid



386.2

C

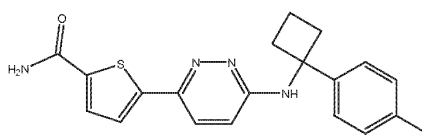
5-(6-[[[3-fluoro-2-pyridyl]cyclobutyl]amino]pyridazin-3-yl)thiophene-2-carboxamide



370.1

B

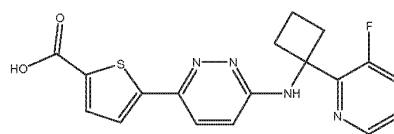
5-(6-[[[4-fluorophenyl]cyclobutyl]amino]pyridazin-3-yl)thiophene-2-carboxamide



369.1

B

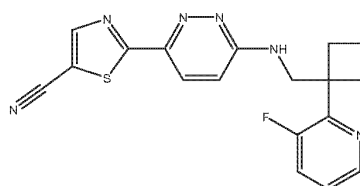
5-(6-[[[3-fluoro-2-pyridyl]cyclobutyl]amino]pyridazin-3-yl)thiophene-2-carboxylic acid



371.1

D

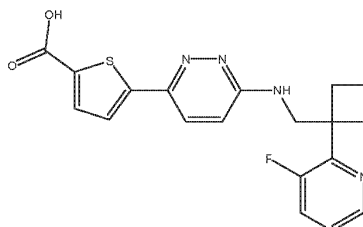
2-[6-([[(3-fluoro-2-pyridyl)cyclobutyl]methyl]amino)pyridazin-3-yl]-1,3-thiazole-5-carbonitrile



367.1

B

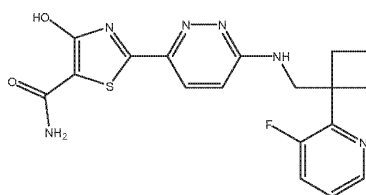
5-[6-([[(3-fluoro-2-pyridyl)cyclobutyl]methyl]amino)pyridazin-3-yl]thiophene-2-carboxylic acid



385.0

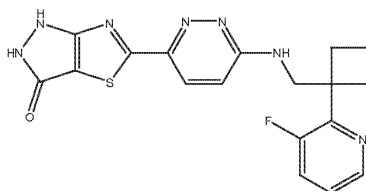
B

2-[6-({[(3-fluoro(2-pyridyl))cyclobutyl)methyl]amino)pyridazin-3-yl]-4-hydroxy-1,3-thiazole-5-carboxamide



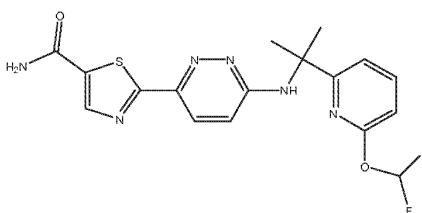
401.1 B

5-[6-({[(3-fluoro(2-pyridyl)cyclobutyl)methyl]amino)pyridazin-3-yl]-3-pyrazolino[3,4-d]1,3-thiazol-3-one



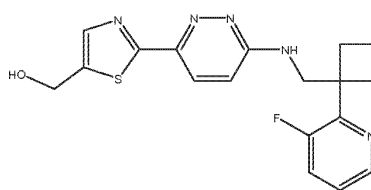
398.3 D

2-[6-({1-[6-(difluoromethoxy)(2-pyridyl)]-isopropyl}amino)pyridazin-3-yl]-1,3-thiazole-5-carboxamide



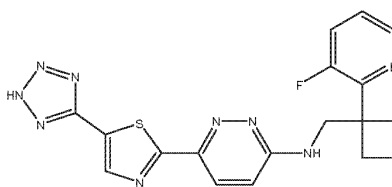
407.1 B

{2-[6-({[(3-fluoro(2-pyridyl)cyclobutyl)methyl]amino)pyridazin-3-yl]-1,3-thiazol-5-yl}methan-1-ol



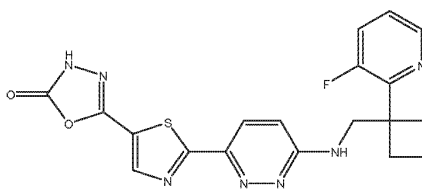
372.2 B

[6-(5-(2H-1,2,3,4-tetraazol-5-yl)(1,3-thiazol-2-yl))pyridazin-3-yl]{[(3-fluoro(2-pyridyl))cyclobutyl)methyl]amine



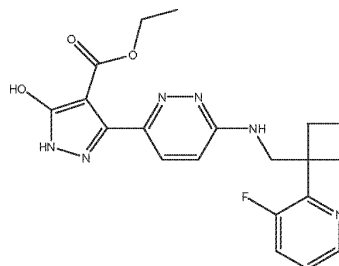
410.2 B

5-{2-[6-({[(3-fluoro(2-pyridyl)cyclobutyl)methyl]amino)pyridazin-3-yl]-1,3-thiazol-5-yl}-1,3,4-oxadiazolin-2-one



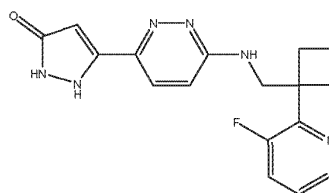
426.2 B

ethyl 3-[6-({[(3-fluoro(2-pyridyl))cyclobutyl)methyl]amino)pyridazin-3-yl]-5-hydroxypyrazole-4-carboxylate



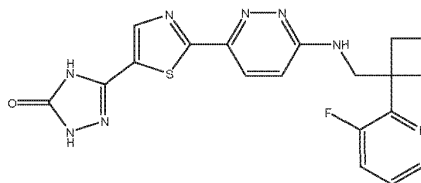
413.1 D

3-[6-({[(3-fluoro-2-pyridyl)cyclobutyl]methyl}amino)pyridazin-3-yl]-3-pyrazolin-5-one



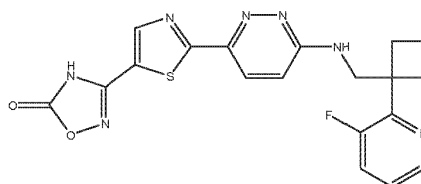
341.1 B

3-{2-[6-({[(3-fluoro-2-pyridyl)cyclobutyl]methyl}amino)pyridazin-3-yl]-1,3-thiazol-5-yl}-1,2,4-triazolin-5-one



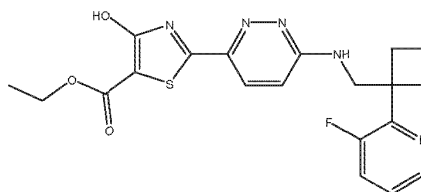
425.2 A

3-{2-[6-({[(3-fluoro-2-pyridyl)cyclobutyl]methyl}amino)pyridazin-3-yl]-1,3-thiazol-5-yl}-1,2,4-oxadiazolin-5-one



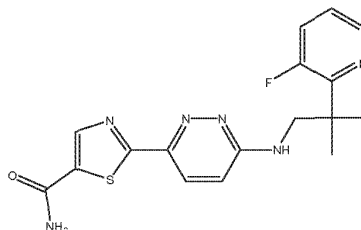
426.2 B

ethyl 2-[6-({[(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]-4-hydroxy-1,3-thiazole-5-carboxylate



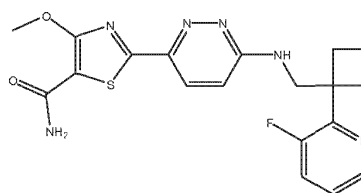
430.1 D

2-[6-({2-[3-fluoro(2-pyridyl))-2-methylpropyl]amino}pyridazin-3-yl)-1,3-thiazole-5-carboxamide



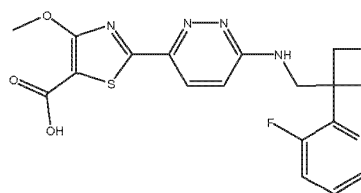
373.2 A

2-[6-({[(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]-4-methoxy-1,3-thiazole-5-carboxamide



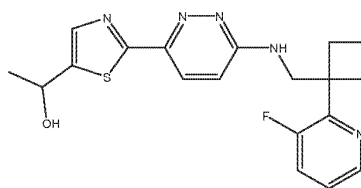
415.1 A

2-[6-({[(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]-4-methoxy-1,3-thiazole-5-carboxylic acid



416.2 C

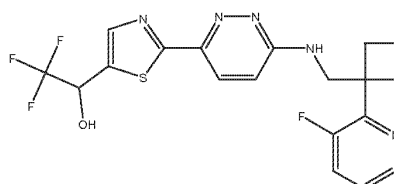
1-{2-[6-({[(3-fluoro-2-pyridyl)cyclobutyl)methyl]amino}pyridazin-3-yl]-1,3-thiazol-5-yl}ethan-1-ol



386.2

B

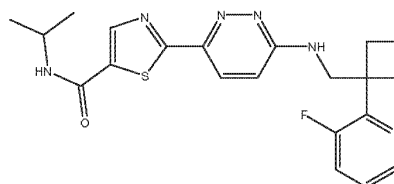
2,2,2-trifluoro-1-{2-[6-({[(3-fluoro-2-pyridyl))cyclobutyl)methyl]amino}pyridazin-3-yl](1,3-thiazol-5-yl)}ethan-1-ol



440.2

B

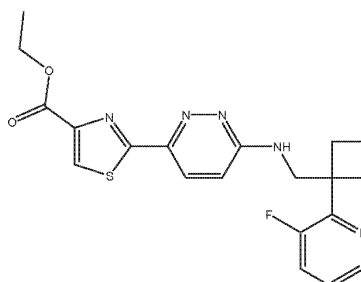
{2-[6-({[(3-fluoro(2-pyridyl))cyclobutyl)methyl]amino}pyridazin-3-yl](1,3-thiazol-5-yl))-N-(methylethyl)carboxamide



427.3

B

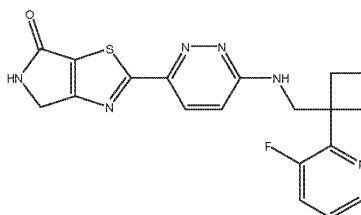
ethyl 2-[6-({[(3-fluoro-2-pyridyl)cyclobutyl)methyl]amino}pyridazin-3-yl]-1,3-thiazole-4-carboxylate



514.0

D

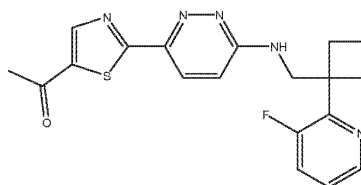
2-[6-({[(3-fluoro-2-pyridyl)cyclobutyl)methyl]amino}pyridazin-3-yl)-3-pyrrolino[3,4-d]1,3-thiazol-6-one



396.1

B

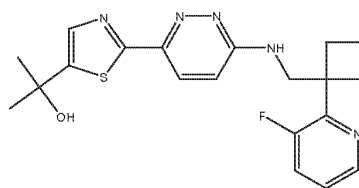
1-{2-[6-({[(3-fluoro-2-pyridyl)cyclobutyl)methyl]amino}pyridazin-3-yl]-1,3-thiazol-5-yl}ethan-1-one



384.2

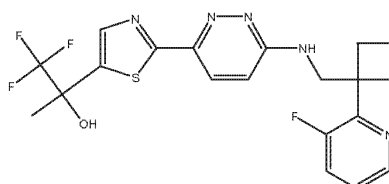
C

2-{2-[6-({[(3-fluoro-2-pyridyl)cyclobutyl]methyl}amino)pyridazin-3-yl]-1,3-thiazol-5-yl}propan-2-ol



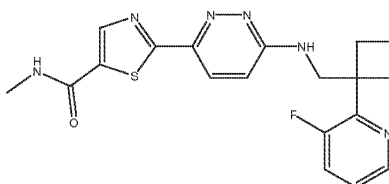
400.3 C

1,1,1-trifluoro-2-{2-[6-({[(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl](1,3-thiazol-5-yl)}propan-2-ol



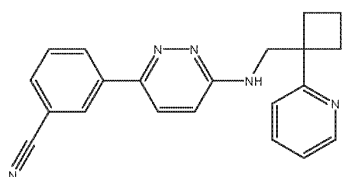
454.2 C

{2-[6-({[(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl](1,3-thiazol-5-yl))-N-methylcarboxamide



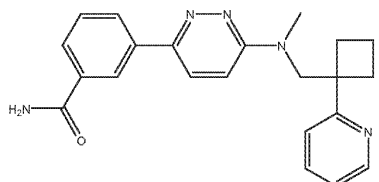
399.3 A

3-(6-({[(2-pyridyl)cyclobutyl]methyl}amino)pyridazin-3-yl)benzenecarbonitrile



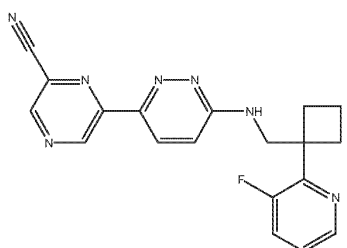
342.1 B

3-(6-{methyl[(2-pyridyl)cyclobutyl]methyl}amino)pyridazin-3-yl)benzamide



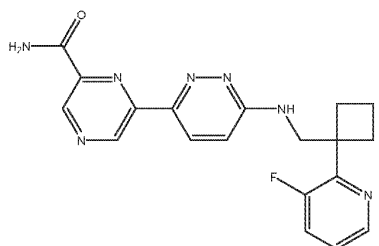
374.2 D

6-[6-({[(3-fluoro-2-pyridyl)cyclobutyl]methyl}amino)pyridazin-3-yl]pyrazine-2-carbonitrile



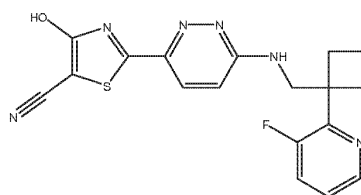
362.1 B

6-[6-({[(3-fluoro-2-pyridyl)cyclobutyl]methyl}amino)pyridazin-3-yl]pyrazine-2-carboxamide



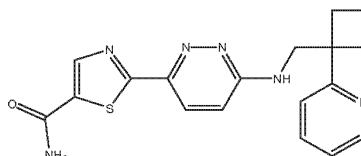
380.2 C

2-[6-({[(3-fluoro(2-pyridyl)cyclobutyl)methyl]amino}pyridazin-3-yl)-4-hydroxy-1,3-thiazole-5-carbonitrile



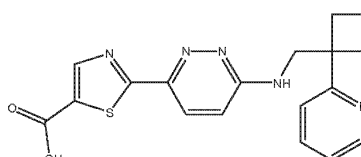
383.1 D

2-(6-({[(2-pyridylcyclobutyl)methyl]amino}pyridazin-3-yl)-1,3-thiazole-5-carboxamide



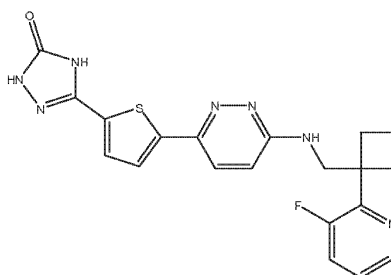
367.1 A

2-(6-({[(2-pyridylcyclobutyl)methyl]amino}pyridazin-3-yl)-1,3-thiazole-5-carboxylic acid



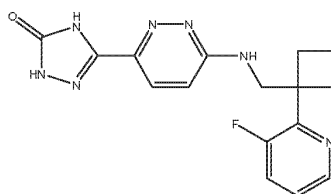
368.1 C

3-{5-[6-({[(3-fluoro(2-pyridyl)cyclobutyl)methyl]amino}pyridazin-3-yl)-2-thienyl]-1,2,4-triazolin-5-one



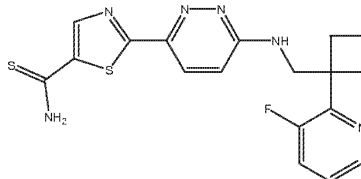
424.1 A

3-[6-({[(3-fluoro(2-pyridyl)cyclobutyl)methyl]amino}pyridazin-3-yl)-1,2,4-triazolin-5-one



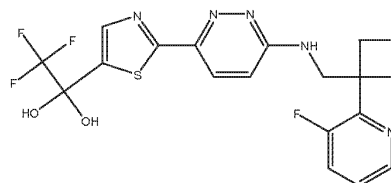
342.2 C

amino{2-[6-({[(3-fluoro(2-pyridyl)cyclobutyl)methyl]amino}pyridazin-3-yl)(1,3-thiazol-5-yl)}methane-1-thione



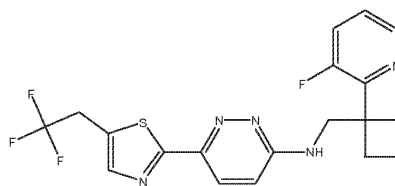
401.2 A

2,2,2-trifluoro-1-{2-[6-({[(3-fluoro(2-pyridyl)cyclobutyl)methyl]amino}pyridazin-3-yl)(1,3-thiazol-5-yl)}ethane-1,1-diol



456.2 B

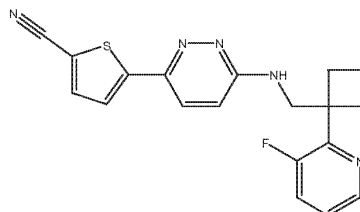
{[(3-fluoro(2-pyridyl)cyclobutyl)methyl]{6-[5-(2,2,2-trifluoroethyl)(1,3-thiazol-2-yl)]pyridazin-3-yl}amine



424.2

B

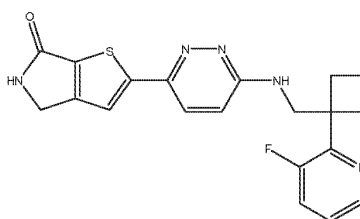
5-[6-({[(3-fluoro-2-pyridyl)cyclobutyl)methyl]amino)pyridazin-3-yl]thiophene-2-carbonitrile



366.2

B

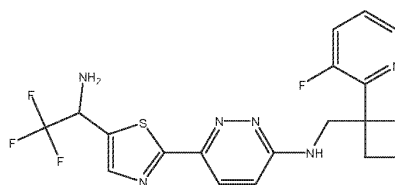
2-[6-({[(3-fluoro-2-pyridyl)cyclobutyl)methyl]amino)pyridazin-3-yl]thiopheno[2,3-c]3-pyrrolin-6-one



396.2

B

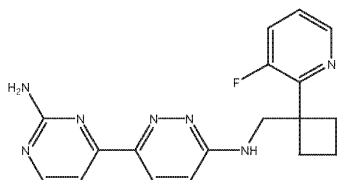
{6-[5-(1-amino-2,2,2-trifluoroethyl)(1,3-thiazol-2-yl)]pyridazin-3-yl}{[(3-fluoro(2-pyridyl)cyclobutyl)methyl]amine



439.2

B

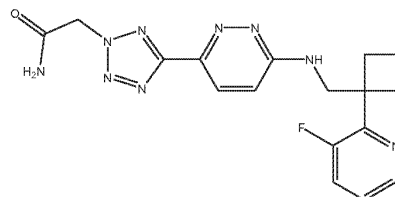
[6-(2-aminopyrimidin-4-yl)pyridazin-3-yl]{[(3-fluoro(2-pyridyl)cyclobutyl)methyl]amine



352.3

B

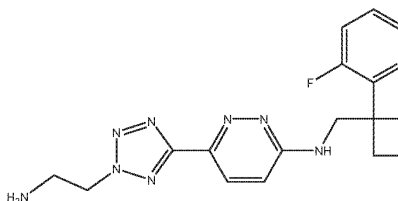
2-{5-[6-({[(3-fluoro-2-pyridyl)cyclobutyl)methyl]amino)pyridazin-3-yl]-1,2,3,4-tetraazol-2-yl}acetamide



384.3

D

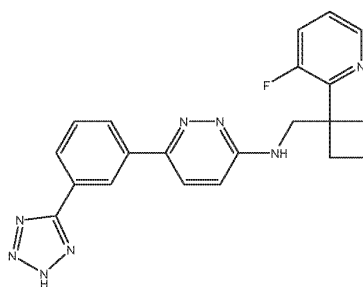
{6-[2-(2-aminoethyl)(1,2,3,4-tetraazol-5-yl)]pyridazin-3-yl}{[(3-fluoro(2-pyridyl)cyclobutyl)methyl]amine



370.3

D

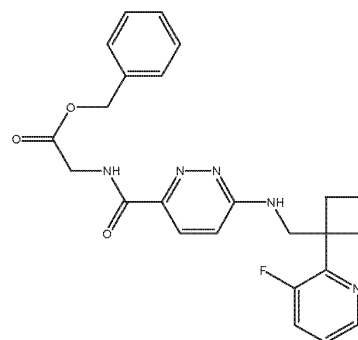
[6-(3-(2H-1,2,3,4-tetraazol-5-yl)phenyl)pyridazin-3-yl]{{[(3-fluoro-2-pyridyl))cyclobutyl)methyl}amine



403.1

A

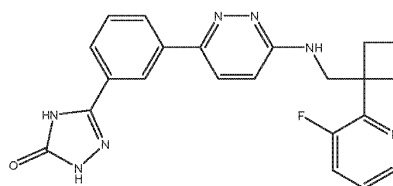
phenylmethyl 2-{{[6-{{[(3-fluoro-2-pyridyl)cyclobutyl)methyl}amino]pyridazin-3-yl}carbonylamino]acetate



450.1

D

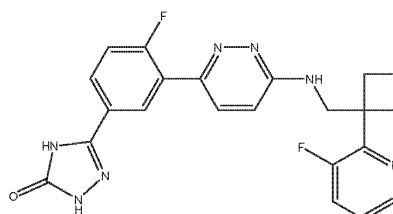
3-{3-[6-{{[(3-fluoro-2-pyridyl)cyclobutyl)methyl}amino]pyridazin-3-yl}phenyl}-1,2,4-triazolin-5-one



418.3

B

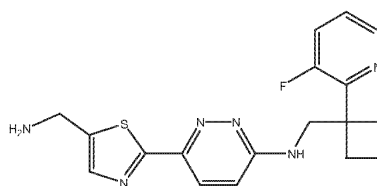
3-{4-fluoro-3-[6-{{[(3-fluoro-2-pyridyl)cyclobutyl)methyl}amino]pyridazin-3-yl}phenyl}-1,2,4-triazolin-5-one



436.3

A

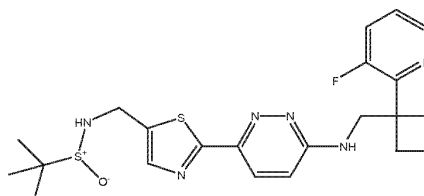
{6-[5-(aminomethyl)(1,3-thiazol-2-yl)]pyridazin-3-yl}{{[(3-fluoro(2-pyridyl))cyclobutyl)methyl}amine



371.3

B

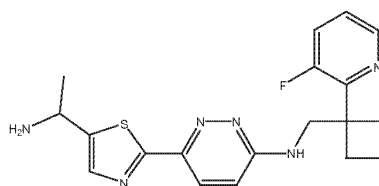
N-((2-(6-((1-(3-fluoropyridin-2-yl)cyclobutyl)methylamino)pyridazin-3-yl)thiazol-5-yl)methyl)-2-methylpropane-2-sulfonamide



475.3

B

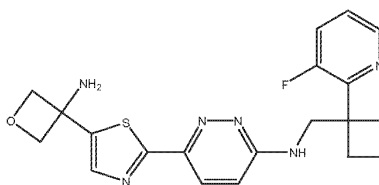
{6-[5-(aminoethyl)(1,3-thiazol-2-yl)]pyridazin-3-yl}{[(3-fluoro(2-pyridyl))cyclobutyl]methyl}amine



385.3

B

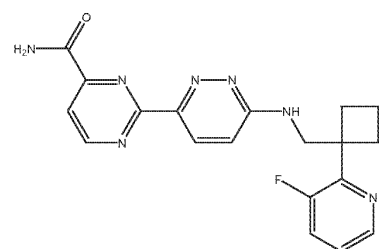
{6-[5-(3-aminooxetan-3-yl)(1,3-thiazol-2-yl)]pyridazin-3-yl}{[(3-fluoro(2-pyridyl))cyclobutyl]methyl}amine



413.2

D

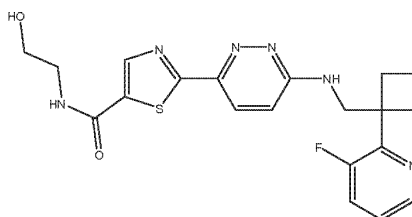
2-[6-({[(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]pyrimidine-4-carboxamide



380.3

A

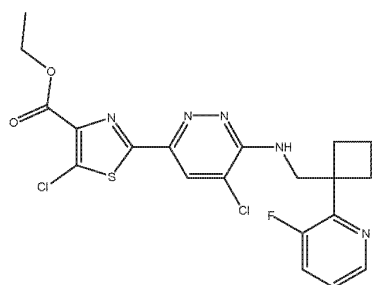
{2-[6-({[(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl](1,3-thiazol-5-yl)-N-(2-hydroxyethyl)carboxamide



429.2

A

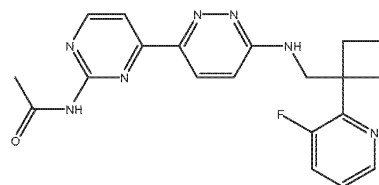
ethyl 5-chloro-2-[5-chloro-6-({[(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]-1,3-thiazole-4-carboxylate



482.2

D

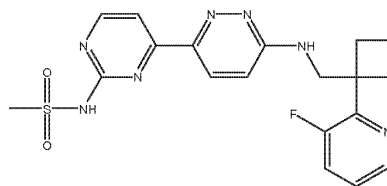
N-{4-[6-({[(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]pyrimidin-2-yl}acetamide



394.3

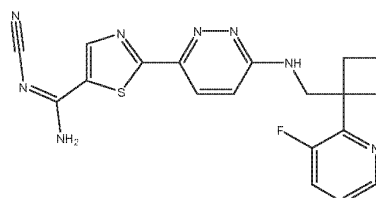
C

{4-[6-({[(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]pyrimidin-2-yl}(methylsulfonyl)amine



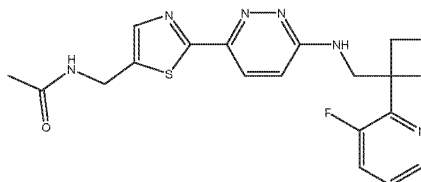
430.3 D

(2E)-3-amino-3-{2-[6-({[(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl](1,3-thiazol-5-yl)}-2-azaprop-2-enenitrile



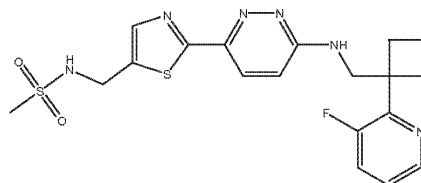
409.1 B

N-({2-[6-({[(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]-1,3-thiazol-5-yl}methyl)acetamide



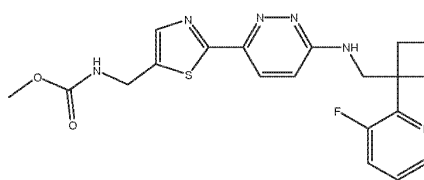
413.3 A

{{2-[6-({[(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl](1,3-thiazol-5-yl)}methyl}(methylsulfonyl)amine



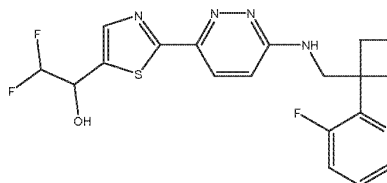
449.2 B

N-({2-[6-({[(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl](1,3-thiazol-5-yl)}methyl)methoxycarboxamide



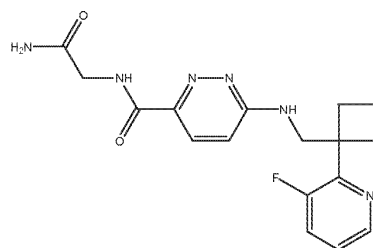
429.2 B

2,2-difluoro-1-{2-[6-({[(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl](1,3-thiazol-5-yl)}ethan-1-ol

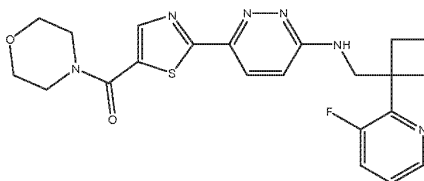


422.2 B

N-(carbamoylmethyl)[6-({[(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]carboxamide

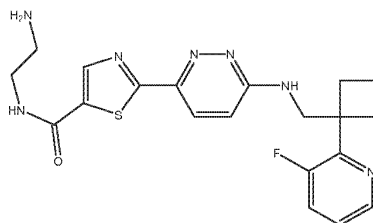
359.1 D
441.3

2-[6-({[(3-fluoro(2-pyridyl)cyclobutyl)methyl]amino)pyridazin-3-yl](1,3-thiazol-5-yl)morpholin-4-yl ketone



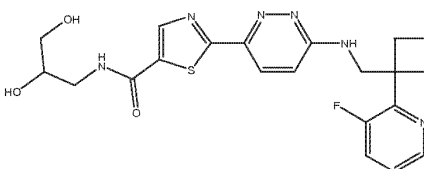
455.3 C

N-(2-aminoethyl){2-[6-({[(3-fluoro(2-pyridyl)cyclobutyl)methyl]amino)pyridazin-3-yl](1,3-thiazol-5-yl)}carboxamide



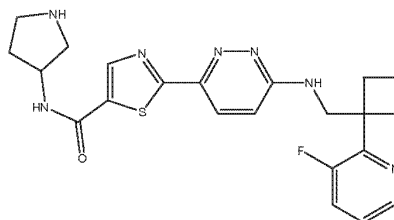
428.4 A

N-(2,3-dihydroxypropyl){2-[6-({[(3-fluoro(2-pyridyl)cyclobutyl)methyl]amino)pyridazin-3-yl](1,3-thiazol-5-yl)}carboxamide



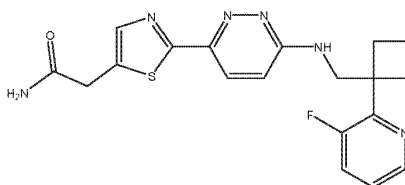
459.3 A

{2-[6-({[(3-fluoro(2-pyridyl)cyclobutyl)methyl]amino)pyridazin-3-yl](1,3-thiazol-5-yl))-N-pyrrolidin-3-yl}carboxamide



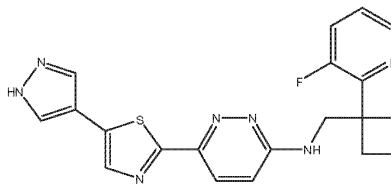
454.3 A

2-{2-[6-({[(3-fluoro(2-pyridyl)cyclobutyl)methyl]amino)pyridazin-3-yl]-1,3-thiazol-5-yl}acetamide

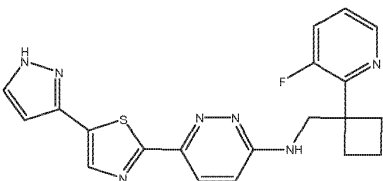
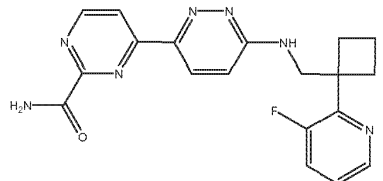
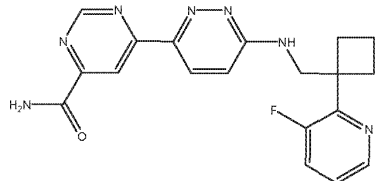
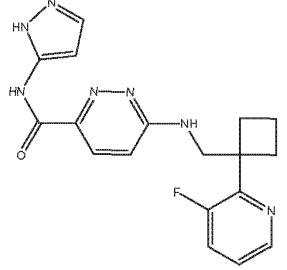
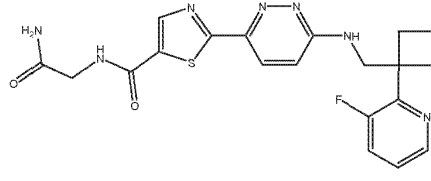
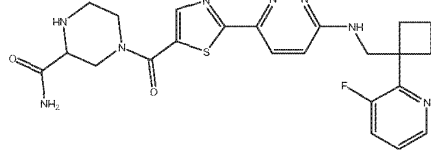


399.3 B

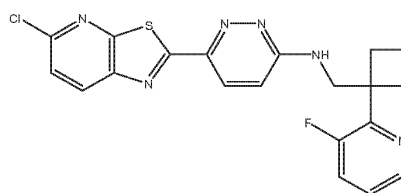
{[(3-fluoro(2-pyridyl)cyclobutyl)methyl][6-(5-pyrazol-4-yl(1,3-thiazol-2-yl))pyridazin-3-yl]amine



408.3 A

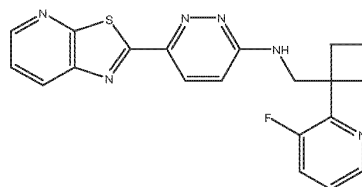
{[(3-fluoro(2-pyridyl)cyclobutyl)methyl][6-(5-pyrazol-3-yl(1,3-thiazol-2-yl))pyridazin-3-yl]amine		408.3	A
4-[6-({[(3-fluoro(2-pyridyl)cyclobutyl)methyl]amino)pyridazin-3-yl]pyrimidine-2-carboxamide		380.3	D
6-[6-({[(3-fluoro(2-pyridyl)cyclobutyl)methyl]amino)pyridazin-3-yl]pyrimidine-4-carboxamide		380.3	B
[6-({[(3-fluoro(2-pyridyl)cyclobutyl)methyl]amino)pyridazin-3-yl]-N-pyrazol-5-ylcarboxamide		368.1	B
N-(carbamoylmethyl){2-[6-({[(3-fluoro(2-pyridyl)cyclobutyl)methyl]amino)pyridazin-3-yl](1,3-thiazol-5-yl)}carboxamide		442.3	A
4-({2-[6-({[(3-fluoro(2-pyridyl)cyclobutyl)methyl]amino)pyridazin-3-yl]-1,3-thiazol-5-yl}carbonyl)piperazine-2-carboxamide		497.3	B

[6-(5-chloro(1,3-thiazolino[5,4-b]pyridin-2-yl))pyridazin-3-yl]({[(3-fluoro(2-pyridyl))cyclobutyl]methyl}amine



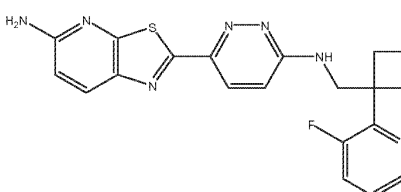
427.1 C

{{[(3-fluoro(2-pyridyl))cyclobutyl]methyl}(6-(1,3-thiazolino[5,4-b]pyridin-2-yl)pyridazin-3-yl)amine



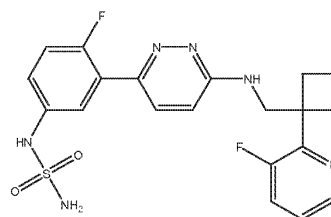
393.1 B

[6-(5-amino(1,3-thiazolino[5,4-b]pyridin-2-yl))pyridazin-3-yl]({[(3-fluoro(2-pyridyl))cyclobutyl]methyl}amine



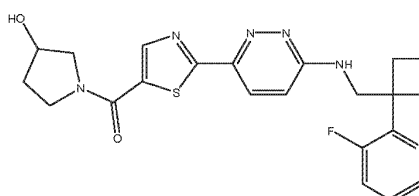
408.1 B

amino{4-fluoro-3-[6-({[(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]phenyl}sulfonamide



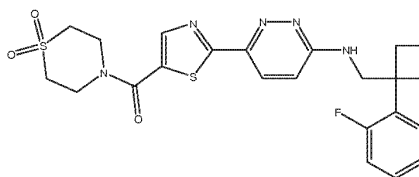
447.2 A

2-[6-({[(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl](1,3-thiazol-5-yl) 3-hydroxypyrrolidinyl ketone



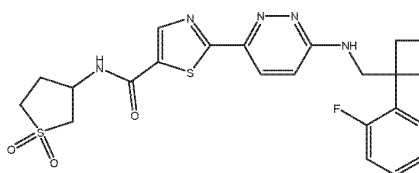
455.3 C

4-({2-[6-({[(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]-1,3-thiazol-5-yl}carbonyl)-1,4-thiazaperhydroine-1,1-dione



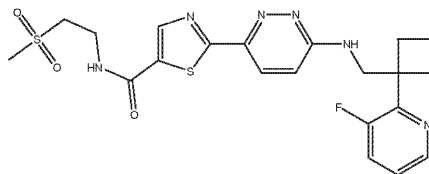
503.3 B

N-(1,1-dioxothiolan-3-yl){2-[6-({[(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl](1,3-thiazol-5-yl)}carboxamide



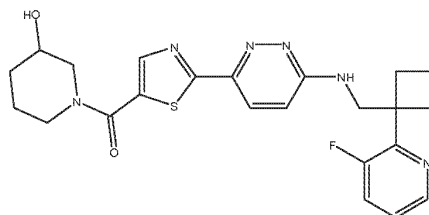
503.3 A

{2-[6-({[(3-fluoro(2-pyridyl))cyclobutyl)methyl]amino}pyridazin-3-yl)(1,3-thiazol-5-yl))-N-[2-(methylsulfonyl)ethyl]carboxamide



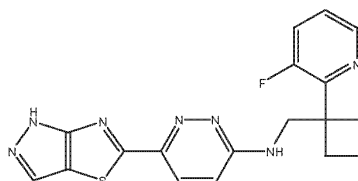
491.2 A

2-[6-({[(3-fluoro(2-pyridyl))cyclobutyl)methyl]amino}pyridazin-3-yl)(1,3-thiazol-5-yl) 3-hydroxypiperidyl ketone



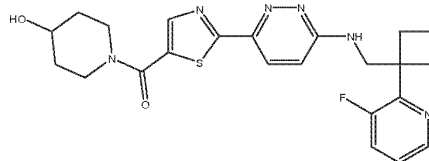
469.3 C

{[(3-fluoro(2-pyridyl))cyclobutyl)methyl](6-pyrazolo[5,4-d]1,3-thiazol-5-yl)pyridazin-3-yl)amine



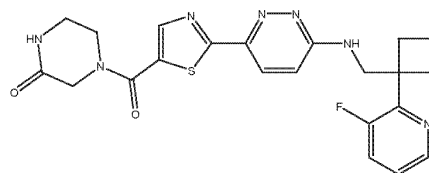
382.1 A

2-[6-({[(3-fluoro(2-pyridyl))cyclobutyl)methyl]amino}pyridazin-3-yl)(1,3-thiazol-5-yl) 4-hydroxypiperidyl ketone



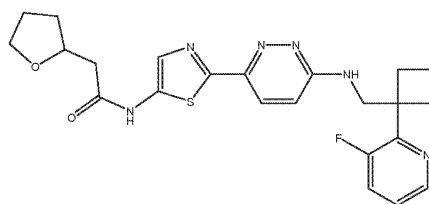
469.3 C

4-({2-[6-({[(3-fluoro(2-pyridyl))cyclobutyl)methyl]amino}pyridazin-3-yl)-1,3-thiazol-5-yl}carbonyl)piperazin-2-one



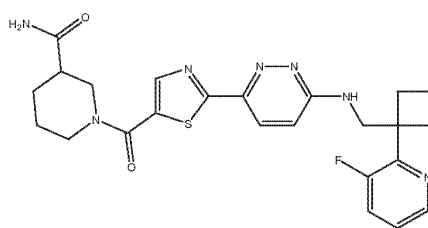
468.3 C

{2-[6-({[(3-fluoro(2-pyridyl))cyclobutyl)methyl]amino}pyridazin-3-yl)(1,3-thiazol-5-yl))-N-(oxolan-2-ylmethyl)carboxamide



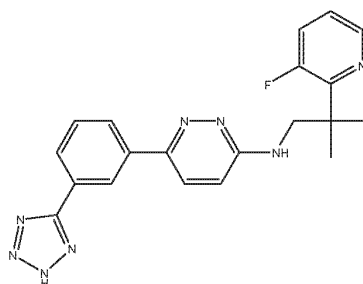
469.3 B

1-({2-[6-({[(3-fluoro-2-pyridyl)cyclobutyl)methyl]amino)pyridazin-3-yl]-1,3-thiazol-5-yl}carbonyl)piperidine-3-carboxamide



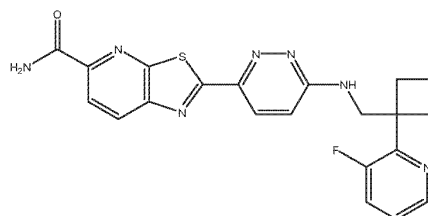
496.3 C

[6-(3-(2H-1,2,3,4-tetraazol-5-yl)phenyl)pyridazin-3-yl][2-(3-fluoro(2-pyridyl))-2-methylpropyl]amine



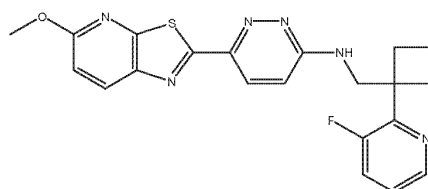
391.3 B

2-[6-({[(3-fluoro-2-pyridyl)cyclobutyl)methyl]amino)pyridazin-3-yl]-1,3-thiazolino[5,4-b]pyridine-5-carboxamide



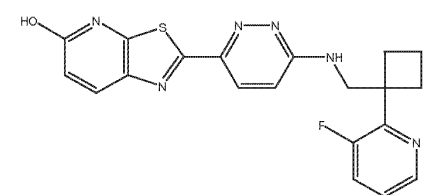
436.1 D

{[(3-fluoro(2-pyridyl)cyclobutyl)methyl][6-(5-methoxy(1,3-thiazolino[5,4-b]pyridin-2-yl))pyridazin-3-yl]amine



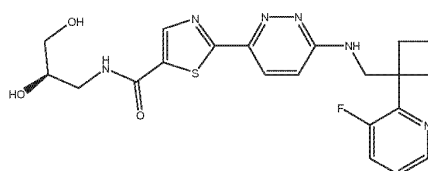
423.1 D

2-[6-({[(3-fluoro-2-pyridyl)cyclobutyl)methyl]amino)pyridazin-3-yl]-1,3-thiazolino[5,4-b]pyridin-5-ol



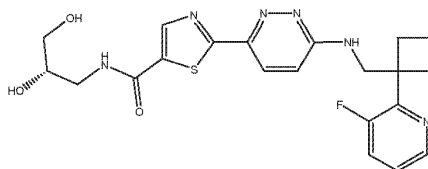
409.1 B

N-((2R)-2,3-dihydroxypropyl){2-[6-({[(3-fluoro(2-pyridyl)cyclobutyl)methyl]amino)pyridazin-3-yl](1,3-thiazol-5-yl)}carboxamide



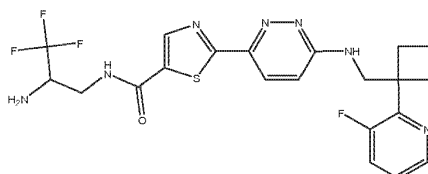
459.3 B

N-((2S)-2,3-dihydroxypropyl){2-[6-
(3-fluoro(2-
pyridyl))cyclobutyl)methyl}amino)p
yridazin-3-yl}(1,3-thiazol-5-
yl)}carboxamide



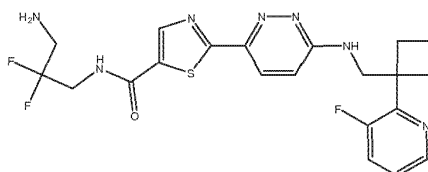
459.3 A

N-(2-amino-3,3,3-
trifluoropropyl){2-[6-((3-fluoro(2-
pyridyl))cyclobutyl)methyl}amino)p
yridazin-3-yl}(1,3-thiazol-5-
yl)}carboxamide



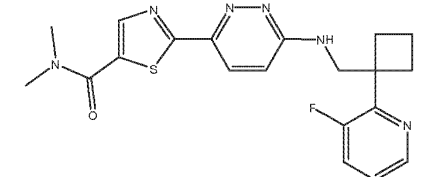
496.3 B

N-(3-amino-2,2-difluoropropyl){2-
[6-((3-fluoro(2-
pyridyl))cyclobutyl)methyl}amino)p
yridazin-3-yl}(1,3-thiazol-5-
yl)}carboxamide



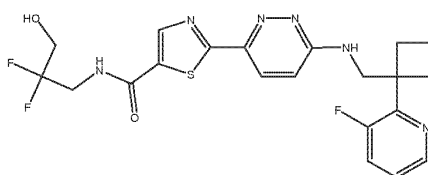
478.3 A

{2-[6-((3-fluoro(2-
pyridyl))cyclobutyl)methyl}amino)p
yridazin-3-yl}(1,3-thiazol-5-yl))-
N,N-dimethylcarboxamide



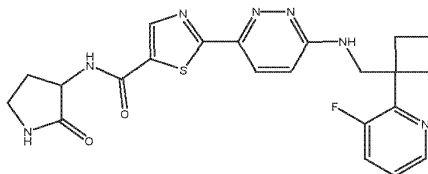
414.3 C

N-(2,2-difluoro-3-
hydroxypropyl){2-[6-((3-fluoro(2-
pyridyl))cyclobutyl)methyl}amino)p
yridazin-3-yl}(1,3-thiazol-5-
yl)}carboxamide



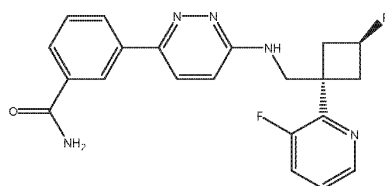
479.3 A

{2-[6-((3-fluoro(2-
pyridyl))cyclobutyl)methyl}amino)p
yridazin-3-yl}(1,3-thiazol-5-yl))-N-
(2-oxopyrrolidin-3-yl)carboxamide



468.3 B

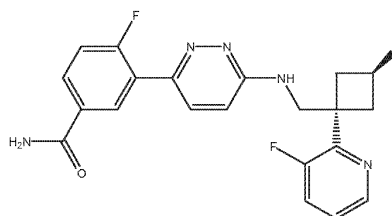
3-[6-({[3-fluoro-1-(3-fluoro(2-pyridyl)cyclobutyl)methyl]amino}pyridazin-3-yl)benzamide



396.3

A

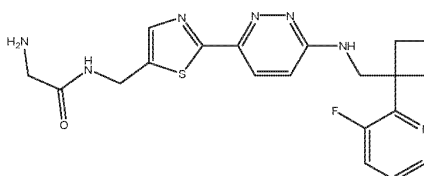
4-fluoro-3-[6-({[3-fluoro-1-(3-fluoro(2-pyridyl)cyclobutyl)methyl]amino}pyridazin-3-yl)benzamide



414.3

A

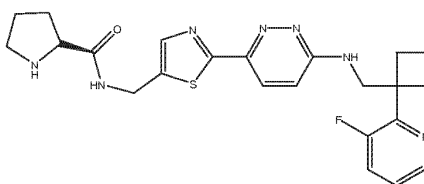
2-amino-N-({2-[6-({[3-fluoro(2-pyridyl)cyclobutyl)methyl]amino}pyridazin-3-yl)(1,3-thiazol-5-yl))methyl}acetamide



428.1

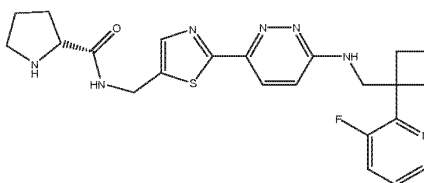
A

((2S)pyrrolidin-2-yl)-N-({2-[6-({[3-fluoro(2-pyridyl)cyclobutyl)methyl]amino}pyridazin-3-yl)(1,3-thiazol-5-yl))methyl}carboxamide



A

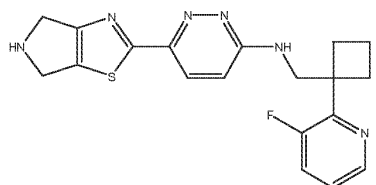
((2R)pyrrolidin-2-yl)-N-({2-[6-({[3-fluoro(2-pyridyl)cyclobutyl)methyl]amino}pyridazin-3-yl)(1,3-thiazol-5-yl))methyl}carboxamide



468.2

A

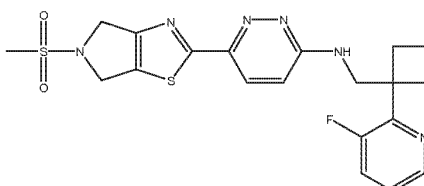
{{[3-fluoro(2-pyridyl)cyclobutyl)methyl}(6-(3-pyrrolino[3,4-d]1,3-thiazol-2-yl)pyridazin-3-yl)amine



383.1

D

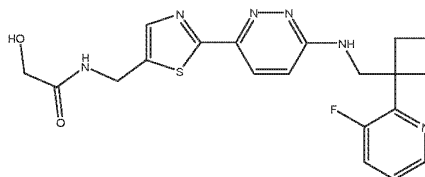
2-[6-({[3-fluoro(2-pyridyl)cyclobutyl)methyl]amino}pyridazin-3-yl)-5-(methylsulfonyl)-3-pyrrolino[3,4-d]1,3-thiazole



461.1

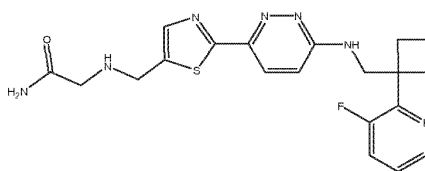
D

N-({2-[6-({[(3-fluoro(2-pyridyl)cyclobutyl)methyl]amino)pyridazin-3-yl](1,3-thiazol-5-yl)}methyl)-2-hydroxyacetamide



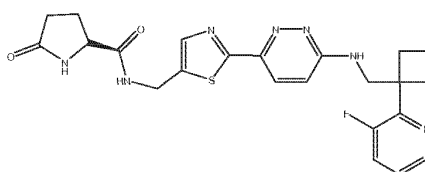
429.1 A

2-[(2-[6-({[(3-fluoro(2-pyridyl)cyclobutyl)methyl]amino)pyridazin-3-yl](1,3-thiazol-5-yl)}methyl)amino]acetamide



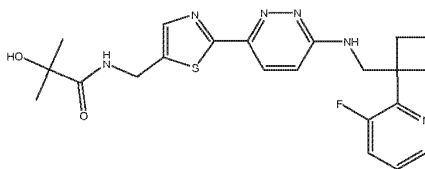
428.1 B

((2S)-5-oxopyrrolidin-2-yl)-N-({2-[6-({[(3-fluoro(2-pyridyl)cyclobutyl)methyl]amino)pyridazin-3-yl](1,3-thiazol-5-yl)}methyl)carboxamide



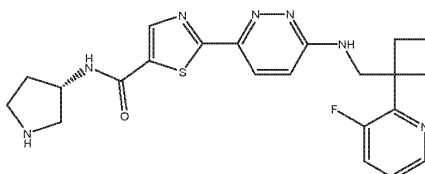
482.1 A

N-({2-[6-({[(3-fluoro(2-pyridyl)cyclobutyl)methyl]amino)pyridazin-3-yl](1,3-thiazol-5-yl)}methyl)-2-hydroxy-2-methylpropanamide



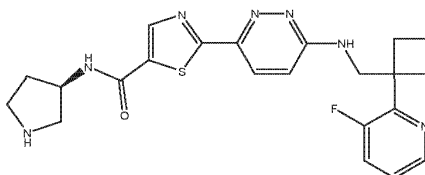
457.1 A

N-((3S)pyrrolidin-3-yl){2-[6-({[(3-fluoro(2-pyridyl)cyclobutyl)methyl]amino)pyridazin-3-yl](1,3-thiazol-5-yl)}carboxamide



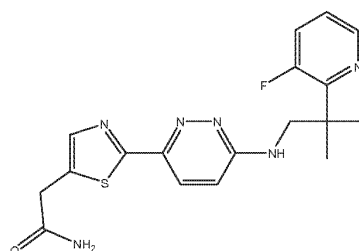
454.3 A

N-((3R)pyrrolidin-3-yl){2-[6-({[(3-fluoro(2-pyridyl)cyclobutyl)methyl]amino)pyridazin-3-yl](1,3-thiazol-5-yl)}carboxamide



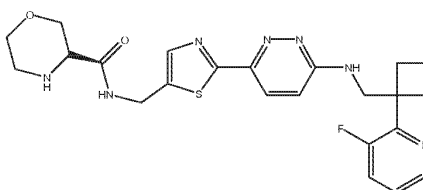
454.3 A

2-[2-(6-[[1-(3-fluoro(2-pyridyl))-
isopropyl]amino]pyridazin-3-yl)-
1,3-thiazol-5-yl]acetamide



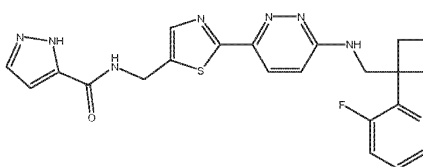
373.2 D

((3S)morpholin-3-yl)-N-({2-[6-(((3-
fluoro(2-
pyridyl))cyclobutyl)methyl)amino]p
yridazin-3-yl}(1,3-thiazol-5-
yl))methyl)carboxamide



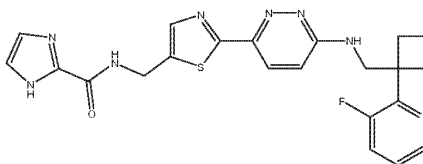
484.3 A

N-({2-[6-(((3-fluoro(2-
pyridyl))cyclobutyl)methyl)amino]p
yridazin-3-yl}(1,3-thiazol-5-
yl))methyl)pyrazol-5-
ylcarboxamide



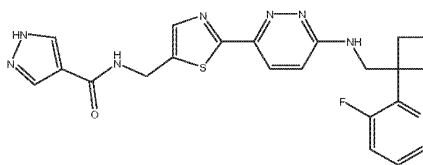
465.3 A

N-({2-[6-(((3-fluoro(2-
pyridyl))cyclobutyl)methyl)amino]p
yridazin-3-yl}(1,3-thiazol-5-
yl))methyl)imidazol-2-
ylcarboxamide



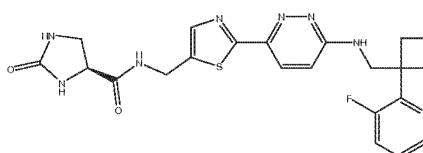
465.3 A

N-({2-[6-(((3-fluoro(2-
pyridyl))cyclobutyl)methyl)amino]p
yridazin-3-yl}(1,3-thiazol-5-
yl))methyl)pyrazol-4-
ylcarboxamide



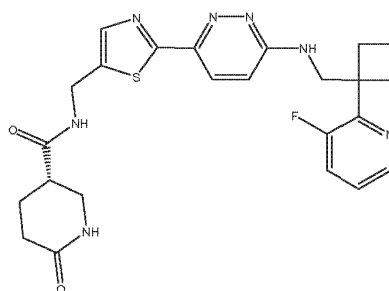
465.3 A

((4S)-2-oxoimidazolidin-4-yl)-N-
({2-[6-(((3-fluoro(2-
pyridyl))cyclobutyl)methyl)amino]p
yridazin-3-yl}(1,3-thiazol-5-
yl))methyl)carboxamide



483.3 A

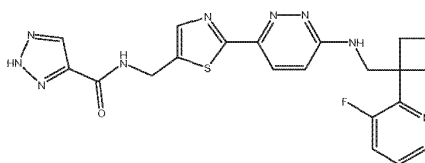
((3S)-6-oxo(3-piperidyl))-N-({2-[6-
 (((3-fluoro(2-
 pyridyl))cyclobutyl)methyl)amino)p
 yridazin-3-yl}[(1,3-thiazol-5-
 yl))methyl]carboxamide



496.3

A

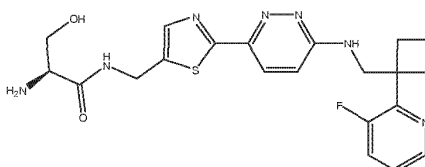
2H-1,2,3-triazol-4-yl-N-({2-[6-(((3-
 fluoro(2-
 pyridyl))cyclobutyl)methyl)amino)p
 yridazin-3-yl}[(1,3-thiazol-5-
 yl))methyl]carboxamide



466.3

A

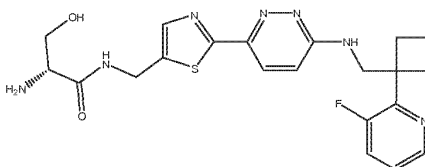
(2S)-2-amino-N-({2-[6-(((3-
 fluoro(2-
 pyridyl))cyclobutyl)methyl)amino)p
 yridazin-3-yl}[(1,3-thiazol-5-
 yl))methyl]-3-hydroxypropanamide



458.3

A

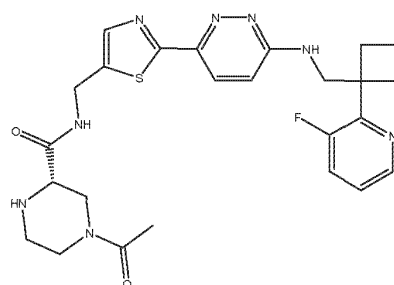
(2R)-2-amino-N-({2-[6-(((3-
 fluoro(2-
 pyridyl))cyclobutyl)methyl)amino)p
 yridazin-3-yl}[(1,3-thiazol-5-
 yl))methyl]-3-hydroxypropanamide



458.3

A

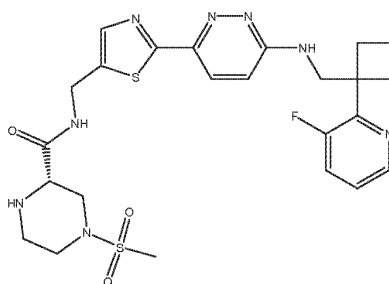
((2S)-4-acetylpiperazin-2-yl)-N-
 ({2-[6-(((3-fluoro(2-
 pyridyl))cyclobutyl)methyl)amino)p
 yridazin-3-yl}[(1,3-thiazol-5-
 yl))methyl]carboxamide



525.3

A

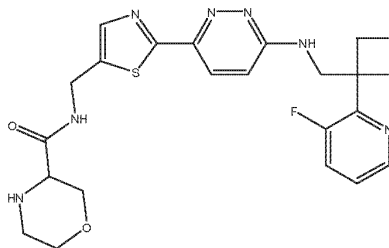
[(2S)-4-(methylsulfonyl)piperazin-2-yl]-N-({2-[6-({[(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl](1,3-thiazol-5-yl))methyl}carboxamide



562.3

A

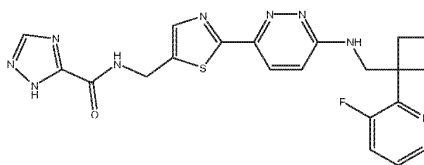
((3S)morpholin-3-yl)-N-({2-[6-({[(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl](1,3-thiazol-5-yl))methyl}carboxamide



484.2

A

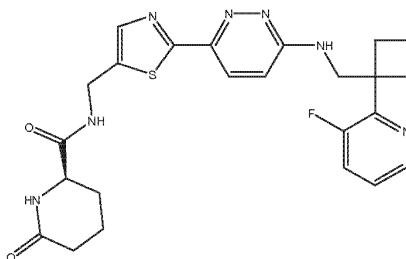
1H-1,2,4-triazol-5-yl-N-({2-[6-({[(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl](1,3-thiazol-5-yl))methyl}carboxamide



466.2

A

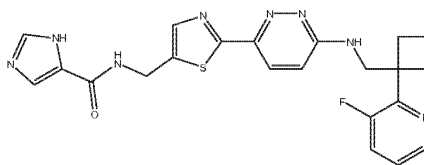
((2R)-6-oxo(2-piperidyl))-N-({2-[6-({[(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl](1,3-thiazol-5-yl))methyl}carboxamide



495.2

A

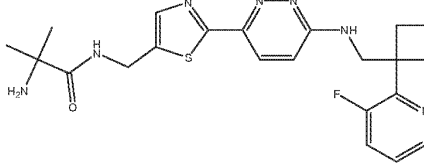
N-({2-[6-({[(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl](1,3-thiazol-5-yl))methyl}imidazol-5-ylcarboxamide



465.2

A

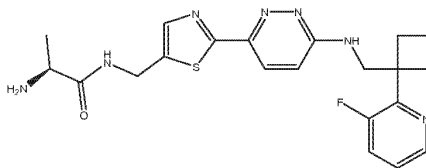
2-amino-N-({2-[6-({[(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl](1,3-thiazol-5-yl))methyl}-2-methylpropanamide



456.2

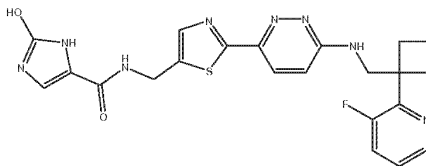
A

(2S)-2-amino-N-({2-[6-({[(3-fluoro(2-pyridyl))cyclobutyl)methyl]amino}pyridazin-3-yl](1,3-thiazol-5-yl))methyl}propanamide



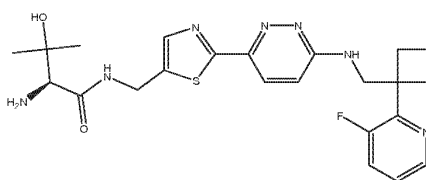
442.2 A

N-({2-[6-({[(3-fluoro(2-pyridyl))cyclobutyl)methyl]amino}pyridazin-3-yl](1,3-thiazol-5-yl))methyl}(2-hydroxyimidazol-5-yl)carboxamide



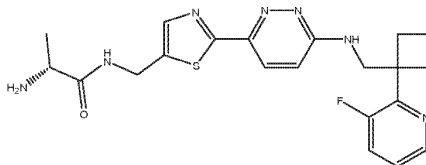
481.2 A

(2S)-2-amino-N-({2-[6-({[(3-fluoro(2-pyridyl))cyclobutyl)methyl]amino}pyridazin-3-yl](1,3-thiazol-5-yl))methyl)-3-hydroxy-3-methylbutanamide



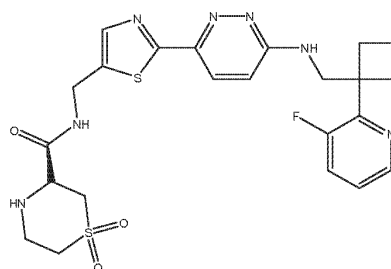
486.3 A

(2R)-2-amino-N-({2-[6-({[(3-fluoro(2-pyridyl))cyclobutyl)methyl]amino}pyridazin-3-yl](1,3-thiazol-5-yl))methyl}propanamide



442.2 A

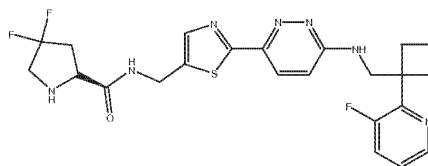
((3R)-1,1-dioxo(1,4-thiazaperhydroin-3-yl))-N-({2-[6-({[(3-fluoro(2-pyridyl))cyclobutyl)methyl]amino}pyridazin-3-yl](1,3-thiazol-5-yl))methyl}carboxamide



532.1 A

((2S)-4,4-difluoropyrrolidin-2-yl)-N-

{{2-[6-({[(3-fluoro(2-pyridyl))cyclobutyl)methyl}amino]pyridazin-3-yl}(1,3-thiazol-5-yl))methyl}carboxamide

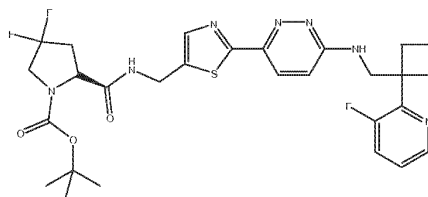


504.2

A

tert-butyl (2S)-4,4-difluoro-2-[N-

{{2-[6-({[(3-fluoro(2-pyridyl))cyclobutyl)methyl}amino]pyridazin-3-yl}(1,3-thiazol-5-yl))methyl}carbamoylethylpyrrolidinecarboxylate

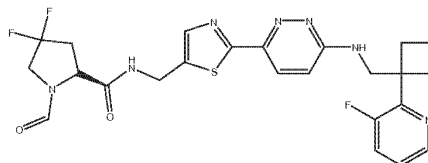


604.2

B

((2S)-4,4-difluoro-1-

formylpyrrolidin-2-yl)-N-({2-[6-({[(3-fluoro(2-pyridyl))cyclobutyl)methyl}amino]pyridazin-3-yl}(1,3-thiazol-5-yl))methyl}carboxamide

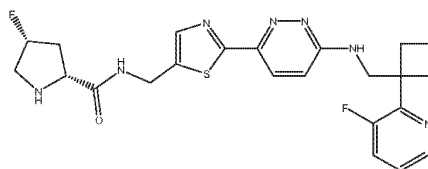


532.1

A

((2R,4R)-4-fluoropyrrolidin-2-yl)-N-

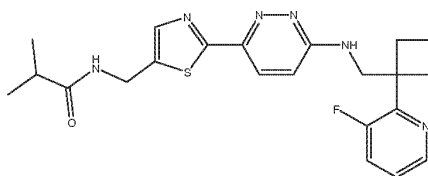
{{2-[6-({[(3-fluoro(2-pyridyl))cyclobutyl)methyl}amino]pyridazin-3-yl}(1,3-thiazol-5-yl))methyl}carboxamide



486.1

A

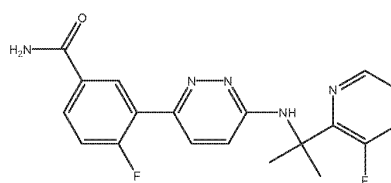
N-({2-[6-({[(3-fluoro(2-pyridyl))cyclobutyl)methyl}amino]pyridazin-3-yl}(1,3-thiazol-5-yl))methyl}-2-methylpropanamide



441.3

A

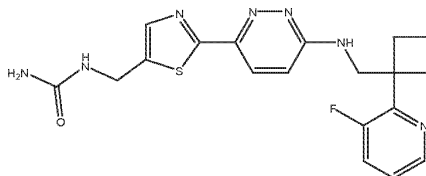
4-fluoro-3-(6-({1-(3-fluoro(2-pyridyl))-isopropyl}amino)pyridazin-3-yl)benzamide



370.2

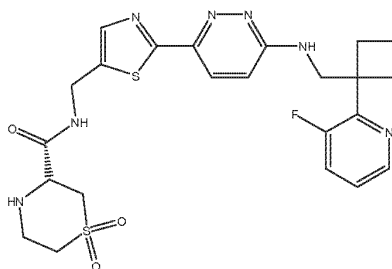
B

amino-N-(2-[6-({[(3-fluoro(2-pyridyl))cyclobutyl)methyl]amino}pyridazin-3-yl)(1,3-thiazol-5-yl))methyl)amide



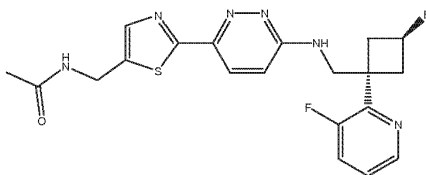
414.1 A

((3S)-1,1-dioxo(1,4-thiazaperhydroin-3-yl))-N-(2-[6-({[(3-fluoro(2-pyridyl))cyclobutyl)methyl]amino}pyridazin-3-yl)(1,3-thiazol-5-yl))methyl)carboxamide



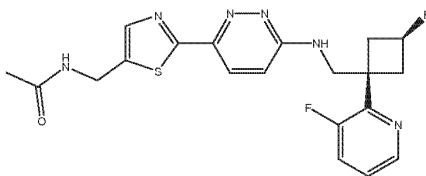
532.3 A

N-(2-[6-({[(3-fluoro-1-(3-fluoro(2-pyridyl))cyclobutyl)methyl]amino}pyridazin-3-yl)-1,3-thiazol-5-yl)methyl)acetamide



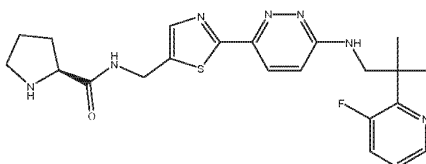
431.3 B

N-(2-[6-({[(3-fluoro-1-(3-fluoro(2-pyridyl))cyclobutyl)methyl]amino}pyridazin-3-yl)-1,3-thiazol-5-yl)methyl)acetamide



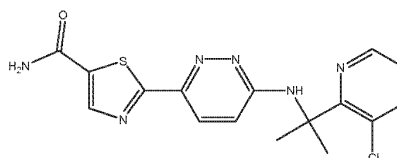
431.2 B

((2S)pyrrolidin-2-yl)-N-{2-[6-({[(3-fluoro(2-pyridyl))-2-methylpropyl]amino}pyridazin-3-yl)(1,3-thiazol-5-yl))methyl}carboxamide



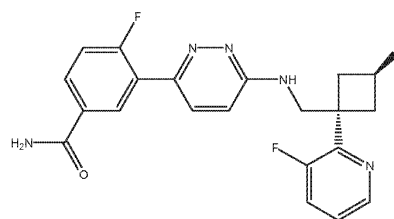
456.3 B

2-[6-({[1-(3-chloro(2-pyridyl))-isopropyl]amino}pyridazin-3-yl)-1,3-thiazole-5-carboxamide



375.2 B

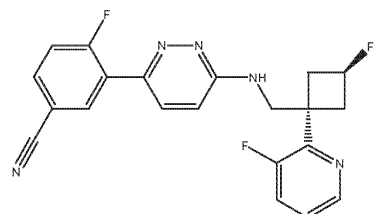
4-fluoro-3-[6-({[3-fluoro-1-(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]benzamide



414.3

B

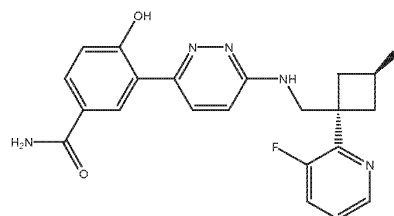
4-fluoro-3-[6-({[3-fluoro-1-(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]benzenecarbonitrile



396.3

B

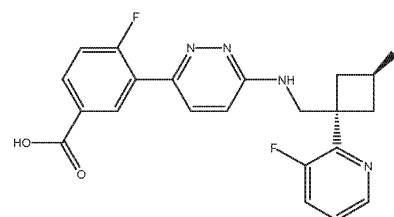
3-[6-({[3-fluoro-1-(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]-4-hydroxybenzamide



412.3

B

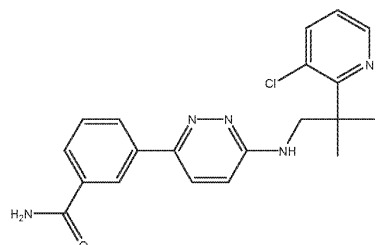
4-fluoro-3-[6-({[3-fluoro-1-(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]benzoic acid



415.3

A

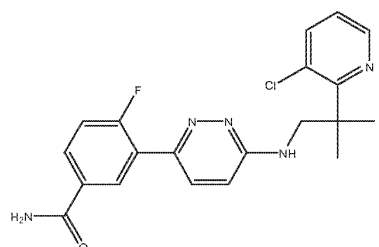
3-(6-{[2-(3-chloro(2-pyridyl))-2-methylpropyl]amino}pyridazin-3-yl)benzamide



382.2

A

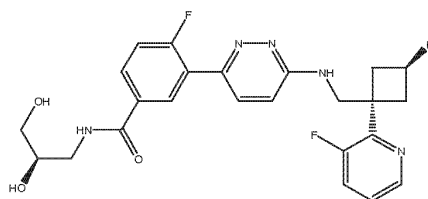
3-(6-{[2-(3-chloro(2-pyridyl))-2-methylpropyl]amino}pyridazin-3-yl)-4-fluorobenzamide



400.3

A

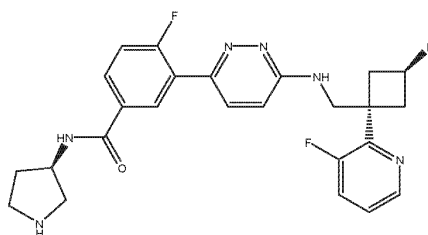
N-((2R)-2,3-dihydroxypropyl){4-fluoro-3-[6-({[3-fluoro-1-(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]phenyl}carboxamide



488.3

A

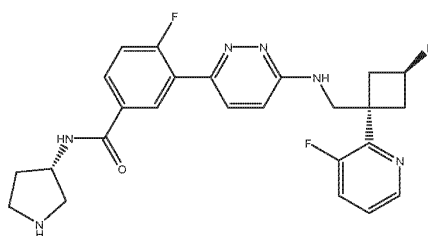
N-((3R)pyrrolidin-3-yl){4-fluoro-3-[6-({[3-fluoro-1-(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]phenyl}carboxamide



483.3

B

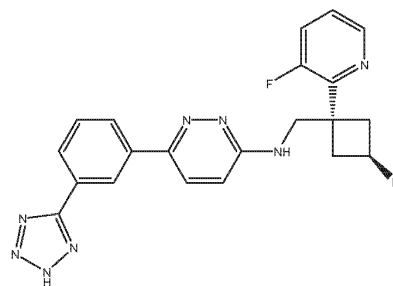
N-((3S)pyrrolidin-3-yl){4-fluoro-3-[6-({[3-fluoro-1-(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]phenyl}carboxamide



483.3

B

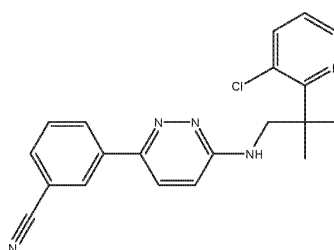
[6-(3-(2H-1,2,3,4-tetraazol-5-yl)phenyl)pyridazin-3-yl]{[3-fluoro-1-(3-fluoro(2-pyridyl))cyclobutyl]methyl}amine



421.1

A

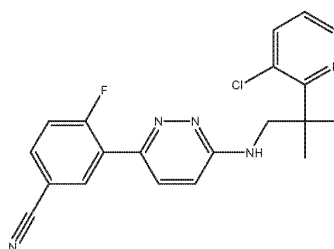
3-(6-{[2-(3-chloro(2-pyridyl))-2-methylpropyl]amino}pyridazin-3-yl)benzenecarbonitrile



364.2

B

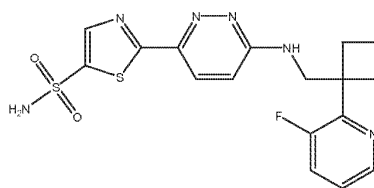
3-(6-{[2-(3-chloro(2-pyridyl))-2-methylpropyl]amino}pyridazin-3-yl)-4-fluorobenzenecarbonitrile



382.2

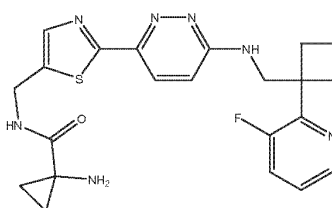
B

2-[6-({[(3-fluoro-2-pyridyl)cyclobutyl)methyl]amino}pyridazin-3-yl)-1,3-thiazole-5-sulfonamide



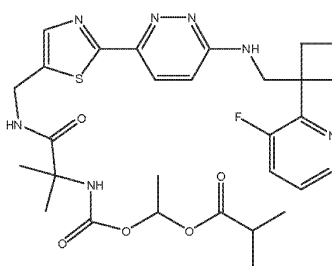
421.2 B

(aminocyclopropyl)-N-({2-[6-({[(3-fluoro-2-pyridyl))cyclobutyl)methyl]amino}pyridazin-3-yl)(1,3-thiazol-5-yl))methylcarboxamide



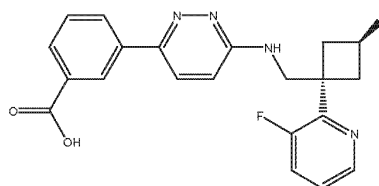
454.2 A

(N-{1-[N-({2-[6-({[(3-fluoro-2-pyridyl))cyclobutyl)methyl]amino}pyridazin-3-yl)(1,3-thiazol-5-yl))methyl}carbamoyl]-isopropyl}carbamoyloxy)ethyl 2-methylpropanoate



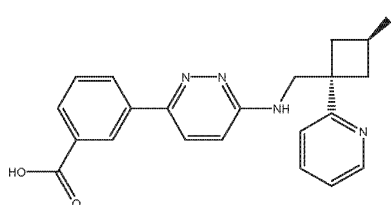
614.1 A

3-[6-({[(3-fluoro-1-(3-fluoro-2-pyridyl))cyclobutyl)methyl]amino}pyridazin-3-yl)benzoic acid



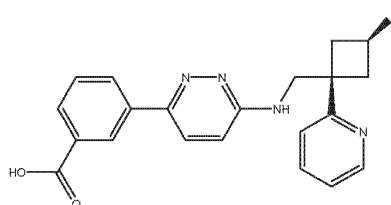
397.2 A

3-(6-({[(3-fluoro-1-(2-pyridyl)cyclobutyl)methyl]amino}pyridazin-3-yl)benzoic acid



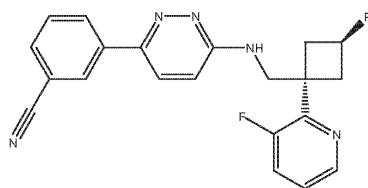
379.3 A

3-(6-({[(3-fluoro-1-(2-pyridyl)cyclobutyl)methyl]amino}pyridazin-3-yl)benzoic acid



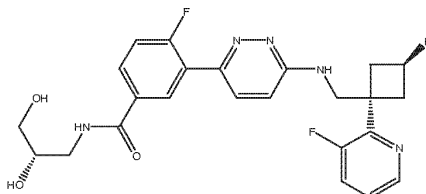
379.3 B

3-[6-({[3-fluoro-1-(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]benzenecarbonitrile



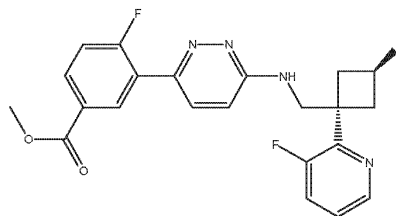
378.2 B

N-((2S)-2,3-dihydroxypropyl){4-fluoro-3-[6-({[3-fluoro-1-(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]phenyl}carboxamide



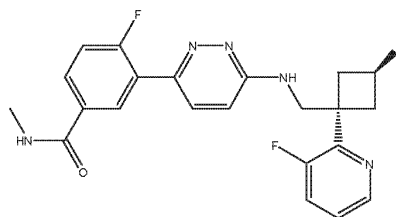
488.3 A

methyl 4-fluoro-3-[6-({[3-fluoro-1-(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]benzoate



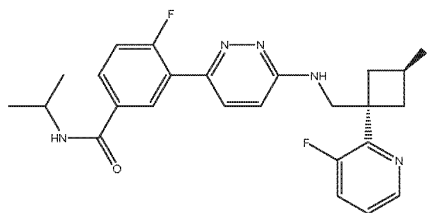
429.3 B

{4-fluoro-3-[6-({[3-fluoro-1-(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]phenyl}-N-methylcarboxamide



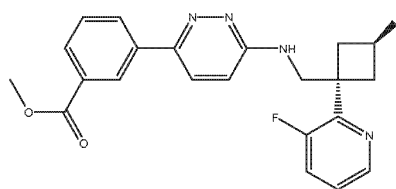
428.3 A

{4-fluoro-3-[6-({[3-fluoro-1-(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]phenyl}-N-(methylethyl)carboxamide



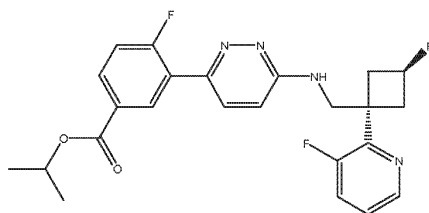
456.3 A

methyl 3-[6-({[3-fluoro-1-(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]benzoate



411.3 B

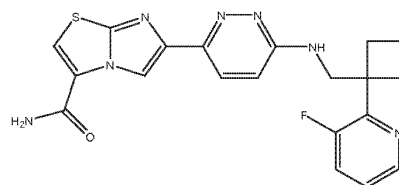
methylethyl 4-fluoro-3-[6-({[3-fluoro-1-(3-fluoro(2-pyridyl))cyclobutyl)methyl}amino)pyridazin-3-yl]benzoate



457.3

B

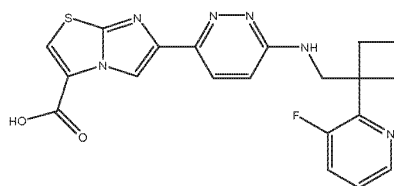
6-[6-({[3-fluoro-2-pyridyl)cyclobutyl)methyl}amino)pyridazin-3-yl]imidazo[2,1-b]1,3-thiazoline-3-carboxamide



424.1

A

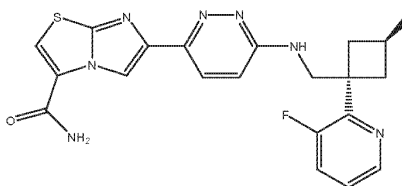
6-[6-({[3-fluoro-2-pyridyl)cyclobutyl)methyl}amino)pyridazin-3-yl]imidazo[2,1-b]1,3-thiazoline-3-carboxylic acid



425.1

A

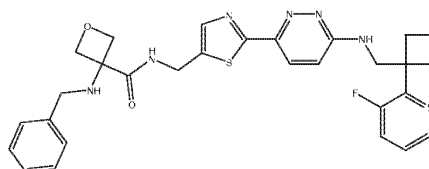
6-[6-({[3-fluoro-1-(3-fluoro(2-pyridyl))cyclobutyl)methyl}amino)pyridazin-3-yl]imidazo[2,1-b]1,3-thiazoline-3-carboxamide



442.1

A

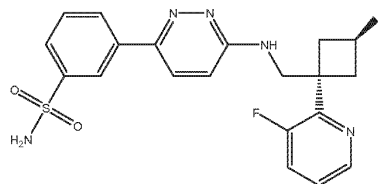
N-({2-[6-({[3-fluoro(2-pyridyl))cyclobutyl)methyl}amino)pyridazin-3-yl](1,3-thiazol-5-yl)methyl}{3-benzylamino]oxetan-3-yl}carboxamide



560.2

A

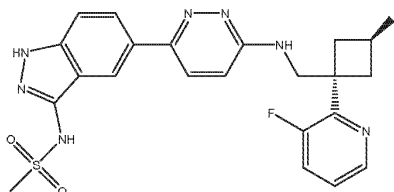
3-[6-({[3-fluoro-1-(3-fluoro(2-pyridyl))cyclobutyl)methyl}amino)pyridazin-3-yl]benzenesulfonamide



432.2

B

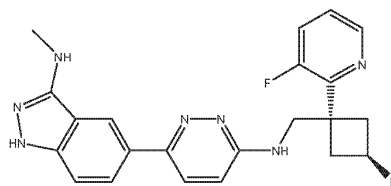
{5-[6-({[3-fluoro-1-(3-fluoro(2-pyridyl))cyclobutyl)methyl}amino)pyridazin-3-yl](1H-indazol-3-yl)}(methylsulfonyl)amine



486.3

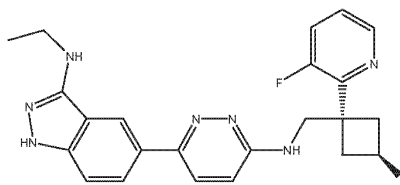
A

{[3-fluoro-1-(3-fluoro(2-pyridyl))cyclobutyl)methyl]{6-[3-(methylamino)(1H-indazol-5-yl)]pyridazin-3-yl}amine



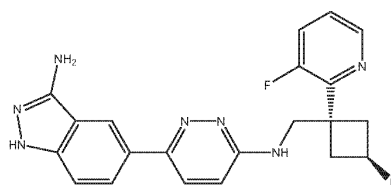
422.3 A

{6-[3-(ethylamino)(1H-indazol-5-yl)]pyridazin-3-yl}{[3-fluoro-1-(3-fluoro(2-pyridyl))cyclobutyl)methyl}amine



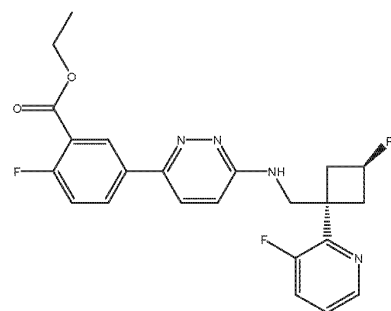
434.3 A

[6-(3-amino(1H-indazol-5-yl))pyridazin-3-yl]{[3-fluoro-1-(3-fluoro(2-pyridyl))cyclobutyl)methyl}amine



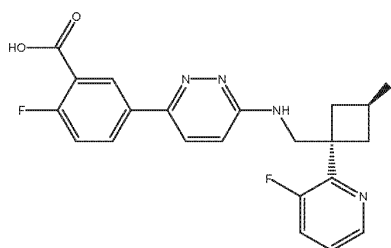
408.3 A

ethyl 2-fluoro-5-[6-({[3-fluoro-1-(3-fluoro(2-pyridyl))cyclobutyl)methyl}amino)pyridazin-3-yl]benzoate



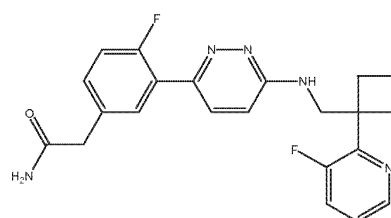
443.3 C

2-fluoro-5-[6-({[3-fluoro-1-(3-fluoro(2-pyridyl))cyclobutyl)methyl}amino)pyridazin-3-yl]benzoic acid



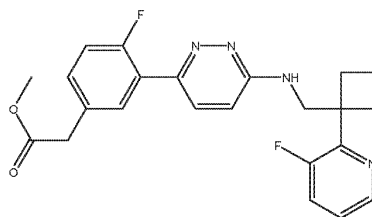
415.3 B

2-{4-fluoro-3-[6-({[3-fluoro(2-pyridyl))cyclobutyl)methyl}amino)pyridazin-3-yl]phenyl}acetamide



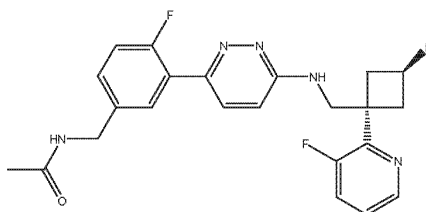
410.1 B

methyl 2-{4-fluoro-3-[6-({[3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]phenyl}acetate



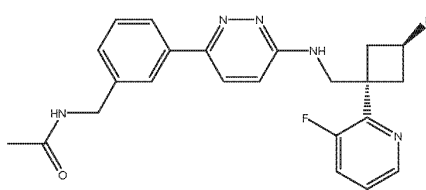
425.1 B

N-({4-fluoro-3-[6-({[3-fluoro-1-(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]phenyl}methyl)acetamide



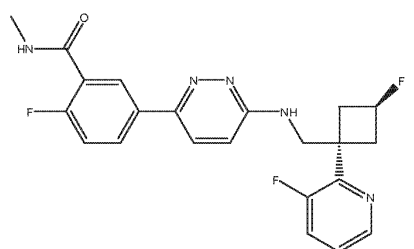
442.4 B

N-({3-[6-({[3-fluoro-1-(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]phenyl}methyl)acetamide



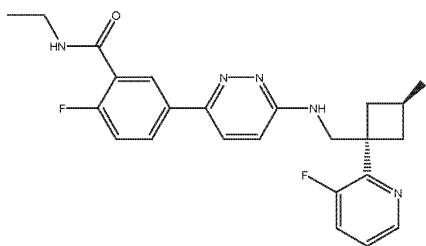
424.3 B

{2-fluoro-5-[6-({[3-fluoro-1-(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]phenyl}-N-methylcarboxamide



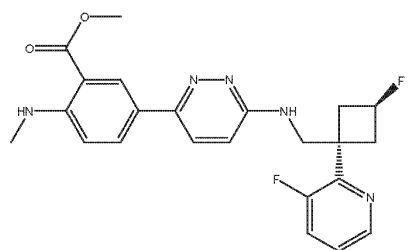
428.3 C

N-ethyl{2-fluoro-5-[6-({[3-fluoro-1-(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]phenyl}carboxamide



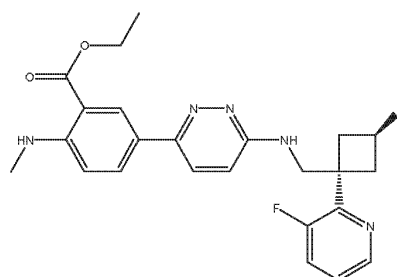
442.3 C

methyl 5-[6-({[3-fluoro-1-(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]-2-(methylamino)benzoate



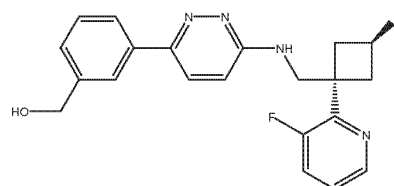
440.3 B

ethyl 5-[6-({[3-fluoro-1-(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]-2-(methylamino)benzoate



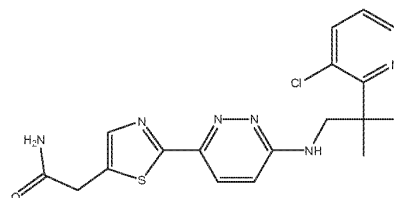
454.3 A

{3-[6-({[3-fluoro-1-(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]phenyl}methan-1-ol



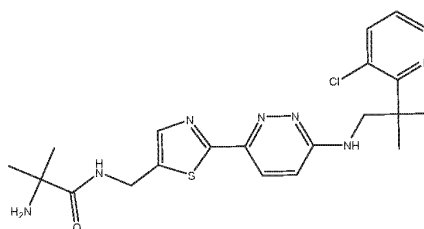
383.2 B

2-[2-(6-({[2-(3-chloro(2-pyridyl))-2-methylpropyl]amino}pyridazin-3-yl)-1,3-thiazol-5-yl]acetamide



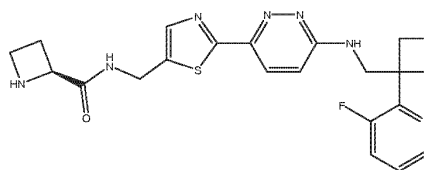
403.2 B

2-amino-N-([2-(6-({[2-(3-chloro(2-pyridyl))-2-methylpropyl]amino}pyridazin-3-yl)(1,3-thiazol-5-yl)methyl]-2-methylpropanamide



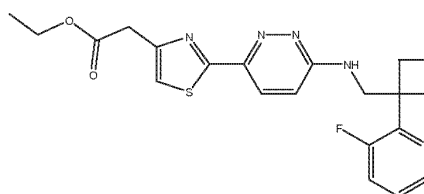
460.1 A

((2S)azetidin-2-yl)-N-({2-[6-({[3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl](1,3-thiazol-5-yl)methyl}carboxamide



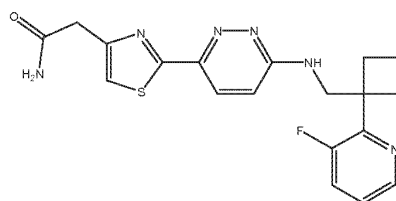
454.1 A

ethyl 2-[2-[6-({[3-fluoro(2-pyridyl)cyclobutyl]methyl}amino)pyridazin-3-yl]-1,3-thiazol-4-yl]acetate



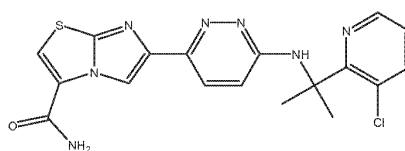
428.1 C

2-{2-[6-({[(3-fluoro-2-pyridyl)cyclobutyl)methyl]amino}pyridazin-3-yl)-1,3-thiazol-4-yl}acetamide



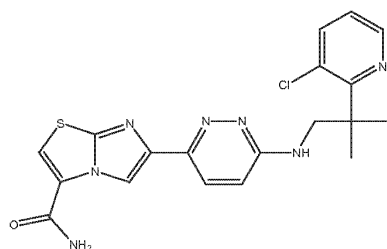
399.2 D

6-(6-{[1-(3-chloro(2-pyridyl))-isopropyl]amino}pyridazin-3-yl)imidazo[2,1-b]1,3-thiazoline-3-carboxamide



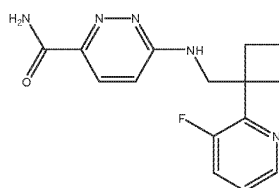
414.1 B

6-(6-{[2-(3-chloro(2-pyridyl))-methylpropyl]amino}pyridazin-3-yl)imidazo[2,1-b]1,3-thiazoline-3-carboxamide



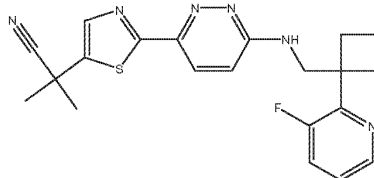
428.1 A

6-({[(3-fluoro-2-pyridyl)cyclobutyl)methyl]amino}pyridazine-3-carboxamide



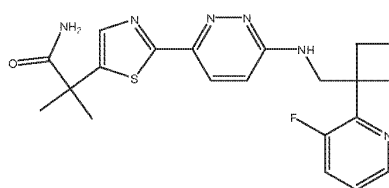
302.2 D

2-{2-[6-({[(3-fluoro(2-pyridyl))cyclobutyl)methyl]amino}pyridazin-3-yl)(1,3-thiazol-5-yl))-2-methylpropanenitrile



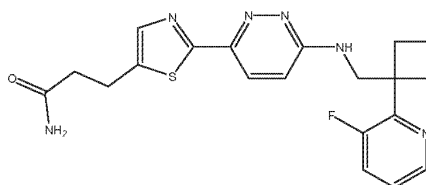
409.1 D

2-{2-[6-({[(3-fluoro(2-pyridyl))cyclobutyl)methyl]amino}pyridazin-3-yl)(1,3-thiazol-5-yl))-2-methylpropanamide



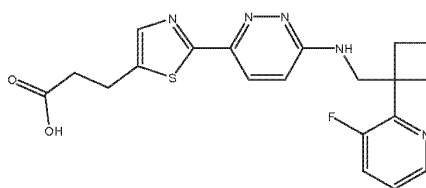
427.1 D

3-{2-[6-({[(3-fluoro-2-pyridyl)cyclobutyl)methyl]amino}pyridazin-3-yl)-1,3-thiazol-5-yl}propanamide



413.1 B

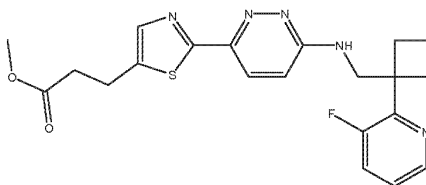
3-{2-[6-({[(3-fluoro-2-pyridyl)cyclobutyl]methyl}amino)pyridazin-3-yl]-1,3-thiazol-5-yl}propanoic acid



414.1

B

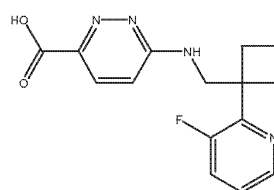
methyl 3-{2-[6-({[(3-fluoro-2-pyridyl)cyclobutyl]methyl}amino)pyridazin-3-yl]-1,3-thiazol-5-yl}propanoate



428.1

B

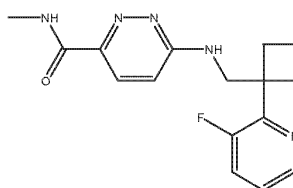
6-({[(3-fluoro-2-pyridyl)cyclobutyl]methyl}amino)pyridazine-3-carboxylic acid



303.2

D

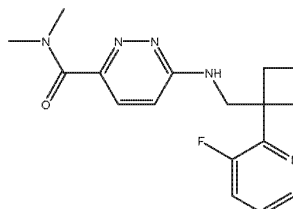
[6-({[(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]-N-methylcarboxamide



316.2

D

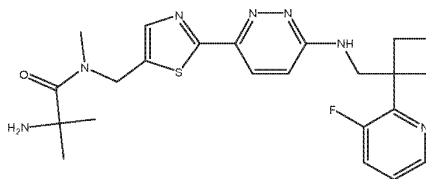
[6-({[(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]-N,N-dimethylcarboxamide



330.3

D

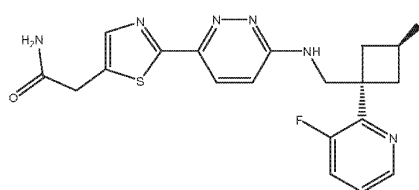
2-amino-N-({2-[6-({[(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl](1,3-thiazol-5-yl))methyl}-2-methyl-N-methylpropanamide



470.2

A

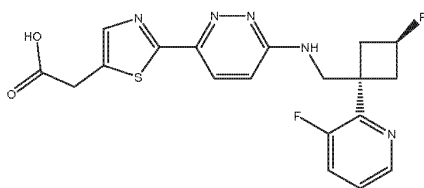
2-{2-[6-({[(3-fluoro-1-(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]-1,3-thiazol-5-yl}acetamide



417.1

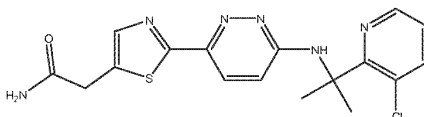
B

2-{2-[6-({[3-fluoro-1-(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]-1,3-thiazol-5-yl}acetic acid



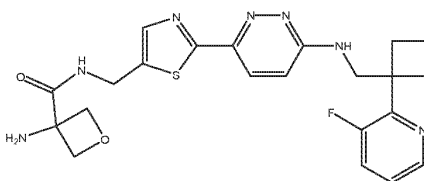
418.1 B

2-[2-(6-({1-(3-chloro(2-pyridyl))-isopropyl}amino)pyridazin-3-yl)-1,3-thiazol-5-yl]acetamide



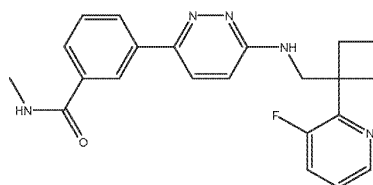
389.1 D

(3-aminooxetan-3-yl)-N-({2-[6-({[3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl](1,3-thiazol-5-yl))methylcarboxamide



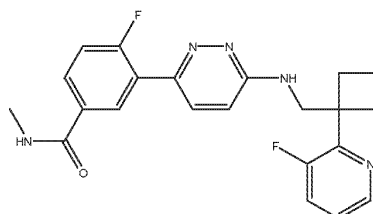
470.1 A

{3-[6-({[3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]phenyl}-N-methylcarboxamide



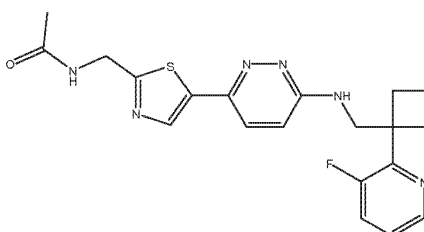
392.3 B

{4-fluoro-3-[6-({[3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]phenyl}-N-methylcarboxamide



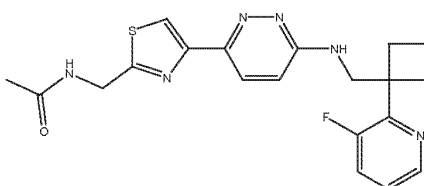
410.3 A

N-({5-[6-({[3-fluoro(2-pyridyl)cyclobutyl]methyl}amino)pyridazin-3-yl]-1,3-thiazol-2-yl)methyl}acetamide



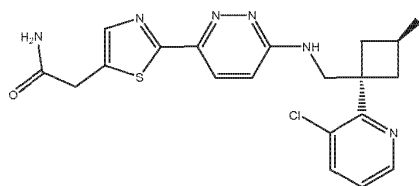
413.3 B

N-({4-[6-({[3-fluoro(2-pyridyl)cyclobutyl]methyl}amino)pyridazin-3-yl]-1,3-thiazol-2-yl)methyl}acetamide



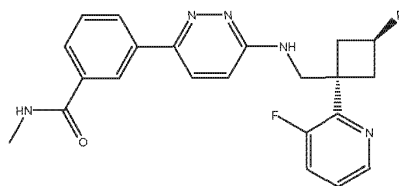
413.3 D

2-{2-[6-({[1-(3-chloro(2-pyridyl))-3-fluorocyclobutyl]methyl}amino)pyridazin-3-yl]-1,3-thiazol-5-yl}acetamide



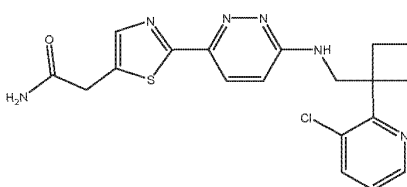
433.2 B

{3-[6-({[3-fluoro-1-(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]phenyl}-N-methylcarboxamide



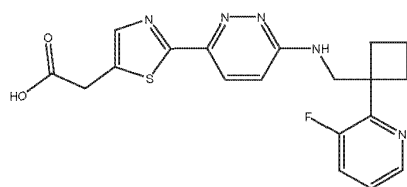
410.1 A

2-{2-[6-({[3-chloro-2-pyridyl]cyclobutyl]methyl}amino)pyridazin-3-yl]-1,3-thiazol-5-yl}acetamide



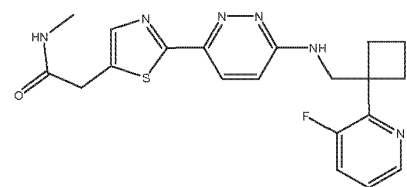
415.3 A

2-{2-[6-({[3-fluoro-2-pyridyl]cyclobutyl]methyl}amino)pyridazin-3-yl]-1,3-thiazol-5-yl}acetic acid



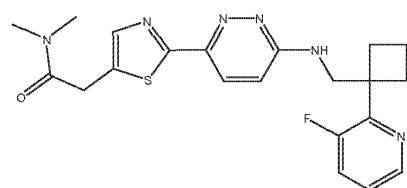
400.3 B

2-{2-[6-({[3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl](1,3-thiazol-5-yl))-N-methylacetamide



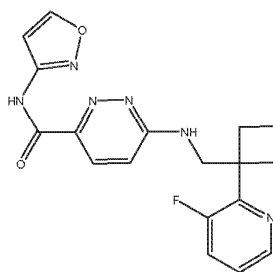
413.3 B

2-{2-[6-({[3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl](1,3-thiazol-5-yl))-N,N-dimethylacetamide



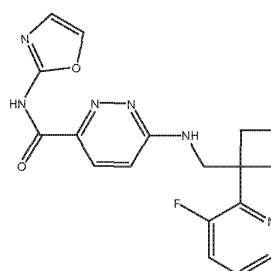
427.3 B

[6-({[3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]-N-isoxazol-3-ylcarboxamide



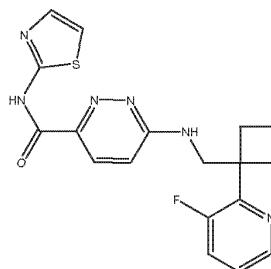
369.2 B

[6-({[(3-fluoro(2-pyridyl)cyclobutyl)methyl]amino)pyridazin-3-yl]-N-(1,3-oxazol-2-yl)carboxamide



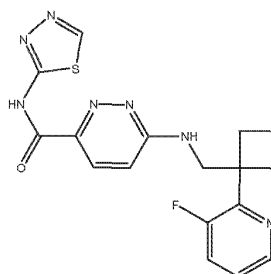
369.2 D

[6-({[(3-fluoro(2-pyridyl)cyclobutyl)methyl]amino)pyridazin-3-yl]-N-(1,3-thiazol-2-yl)carboxamide



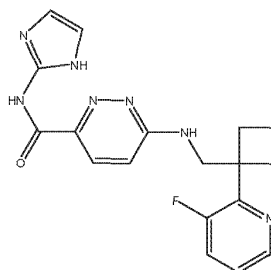
385.2 A

[6-({[(3-fluoro(2-pyridyl)cyclobutyl)methyl]amino)pyridazin-3-yl]-N-(1,3,4-thiadiazol-2-yl)carboxamide



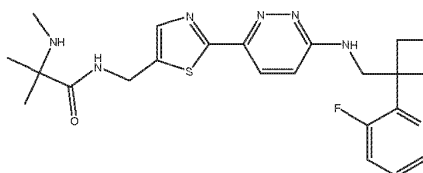
386.2 B

[6-({[(3-fluoro(2-pyridyl)cyclobutyl)methyl]amino)pyridazin-3-yl]-N-imidazol-2-ylcarboxamide



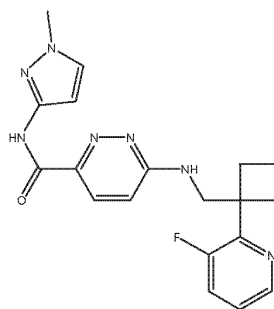
368.3 C

N-({2-[6-({[(3-fluoro(2-pyridyl)cyclobutyl)methyl]amino)pyridazin-3-yl](1,3-thiazol-5-yl)methyl)-2-methyl-2-(methylamino)propanamide



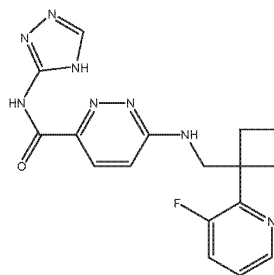
470.3 A

[6-({[(3-fluoro(2-
pyridyl))cyclobutyl]methyl}amino)p
yridazin-3-yl]-N-(1-methylpyrazol-
3-yl)carboxamide



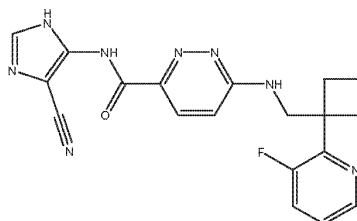
382.1 C

N-(1H-1,2,4-triazol-5-yl)[6-({[(3-
fluoro(2-
pyridyl))cyclobutyl]methyl}amino)p
yridazin-3-yl]carboxamide



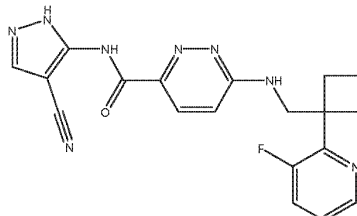
369.3 D

N-(4-cyanoimidazol-5-yl)[6-({[(3-
fluoro(2-
pyridyl))cyclobutyl]methyl}amino)p
yridazin-3-yl]carboxamide



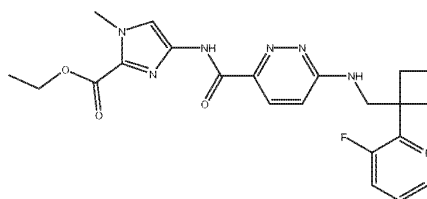
393.3 C

N-(4-cyanopyrazol-5-yl)[6-({[(3-
fluoro(2-
pyridyl))cyclobutyl]methyl}amino)p
yridazin-3-yl]carboxamide



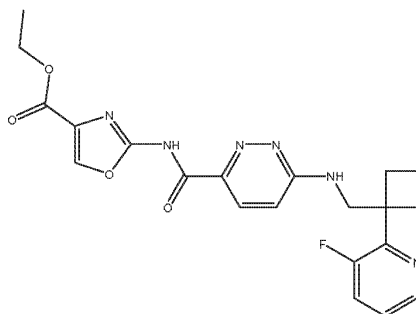
393.3 B

ethyl 4-[6-({[(3-fluoro(2-
pyridyl))cyclobutyl]methyl}amino)p
yridazin-3-yl]carbonylamino)-1-
methylimidazole-2-carboxylate



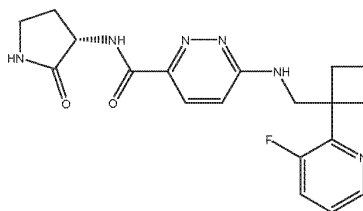
454.3 D

ethyl 2-[6-({[(3-fluoro(2-
pyridyl))cyclobutyl]methyl}amino)p
yridazin-3-yl]carbonylamino)-1,3-
oxazole-4-carboxylate



441.3 D

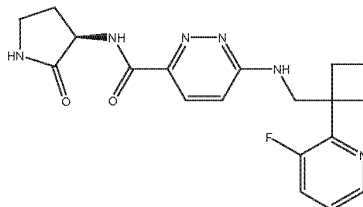
N-((3S)-2-oxopyrrolidin-3-yl)[6-
 (((3-fluoro(2-
 pyridyl)cyclobutyl)methyl)amino)p
 yridazin-3-yl]carboxamide



385.3

D

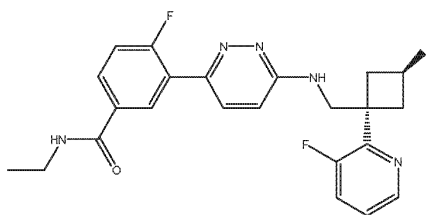
N-((3R)-2-oxopyrrolidin-3-yl)[6-
 (((3-fluoro(2-
 pyridyl)cyclobutyl)methyl)amino)p
 yridazin-3-yl]carboxamide



385.3

D

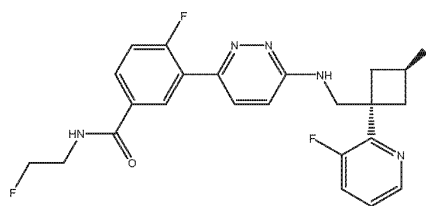
N-ethyl{4-fluoro-3-[6-((3-fluoro-1-
 (3-fluoro(2-
 pyridyl)cyclobutyl)methyl)amino)p
 yridazin-3-yl]phenyl}carboxamide



442.3

B

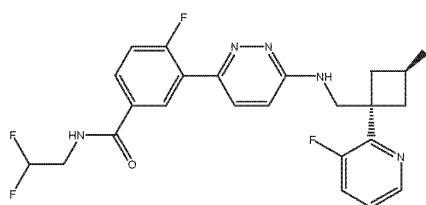
N-(2-fluoroethyl){4-fluoro-3-[6-((3-
 fluoro-1-(3-fluoro(2-
 pyridyl)cyclobutyl)methyl)amino)p
 yridazin-3-yl]phenyl}carboxamide



460.3

B

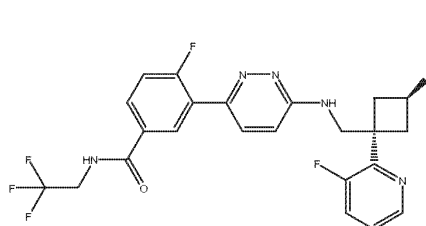
N-(2,2-difluoroethyl){4-fluoro-3-[6-
 ((3-fluoro-1-(3-fluoro(2-
 pyridyl)cyclobutyl)methyl)amino)p
 yridazin-3-yl]phenyl}carboxamide



478.3

B

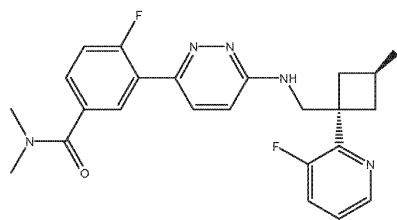
{4-fluoro-3-[6-((3-fluoro-1-(3-
 fluoro(2-
 pyridyl)cyclobutyl)methyl)amino)p
 yridazin-3-yl]phenyl}-N-(2,2,2-
 trifluoroethyl)carboxamide



496.3

B

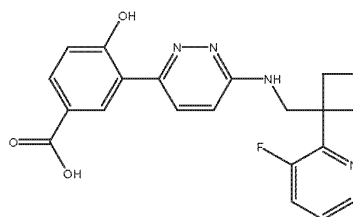
{4-fluoro-3-[6-({[(3-fluoro-1-(3-fluoro(2-pyridyl))cyclobutyl)methyl]amino)pyridazin-3-yl]phenyl}-N,N-dimethylcarboxamide



442.3

B

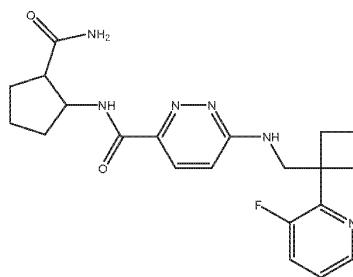
3-[6-({[(3-fluoro(2-pyridyl))cyclobutyl)methyl]amino)pyridazin-3-yl]-4-hydroxybenzoic acid



395.2

C

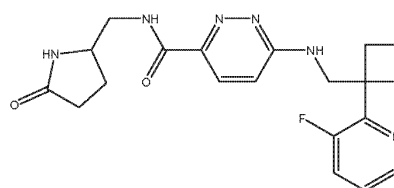
2-({[6-({[(3-fluoro(2-pyridyl))cyclobutyl)methyl]amino)pyridazin-3-yl]carbonylamino}cyclopentanecarboxamide



413.3

D

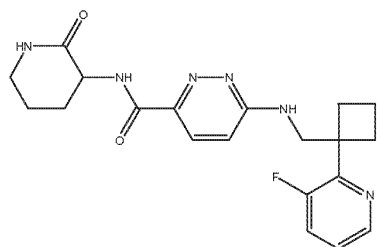
[6-({[(3-fluoro(2-pyridyl))cyclobutyl)methyl]amino)pyridazin-3-yl]-N-[(5-oxopyrrolidin-2-yl)methyl]carboxamide



399.3

D

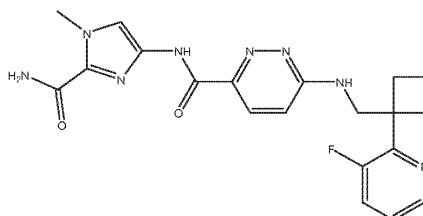
[6-({[(3-fluoro(2-pyridyl))cyclobutyl)methyl]amino)pyridazin-3-yl]-N-(2-oxo(3-piperidyl))carboxamide



399.3

D

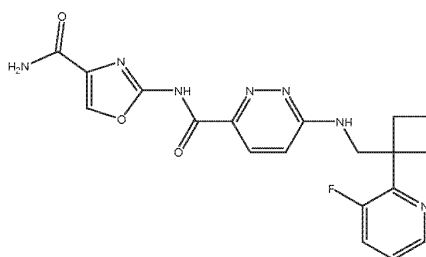
4-({[6-({[(3-fluoro(2-pyridyl))cyclobutyl)methyl]amino)pyridazin-3-yl]carbonylamino}-1-methylimidazole-2-carboxamide



425.3

D

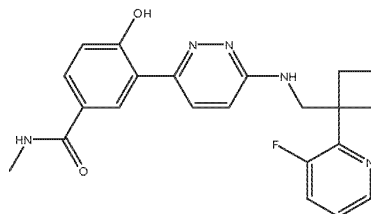
2-{{6-({[(3-fluoro-2-pyridyl)cyclobutyl)methyl]amino}pyridazin-3-yl)carbonylamino}-1,3-oxazole-4-carboxamide



412.3

D

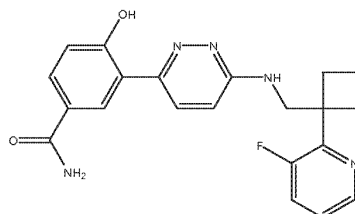
{3-[6-({[(3-fluoro(2-pyridyl))cyclobutyl)methyl]amino}pyridazin-3-yl)-4-hydroxyphenyl]-N-methylcarboxamide



408.3

B

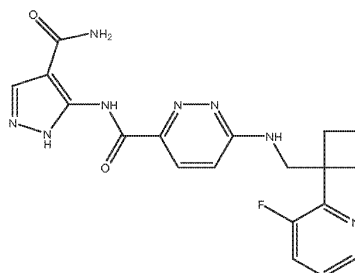
3-[6-({[(3-fluoro(2-pyridyl))cyclobutyl)methyl]amino}pyridazin-3-yl)-4-hydroxybenzamide



394.3

B

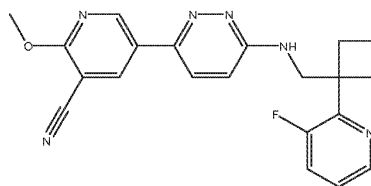
5-{{6-({[(3-fluoro-2-pyridyl)cyclobutyl)methyl]amino}pyridazin-3-yl)carbonylamino}pyrazole-4-carboxamide



411.3

C

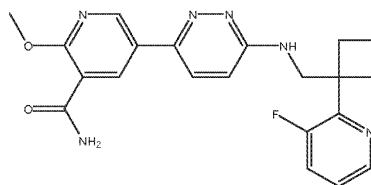
5-[6-({[(3-fluoro(2-pyridyl))cyclobutyl)methyl]amino}pyridazin-3-yl)-2-methoxypyridine-3-carbonitrile



391.1

D

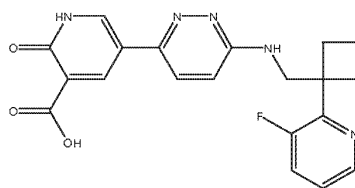
5-[6-({[(3-fluoro(2-pyridyl))cyclobutyl)methyl]amino}pyridazin-3-yl)-2-methoxypyridine-3-carboxamide



409.2

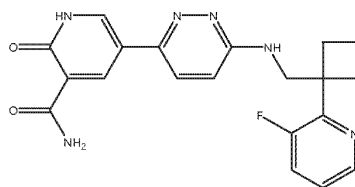
C

5-[6-({[(3-fluoro(2-pyridyl))cyclobutyl)methyl]amino}pyridazin-3-yl)-2-oxohydropyridine-3-carboxylic acid



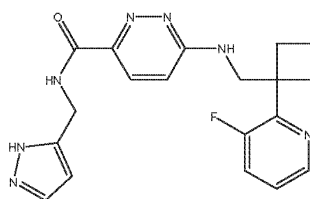
396.1 D

5-[6-({[(3-fluoro(2-pyridyl))cyclobutyl)methyl]amino}pyridazin-3-yl)-2-oxohydropyridine-3-carboxamide



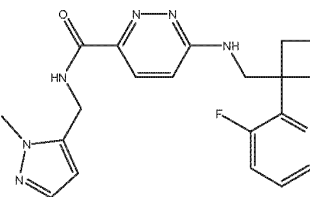
395.1 C

[6-({[(3-fluoro(2-pyridyl))cyclobutyl)methyl]amino}pyridazin-3-yl)-N-(pyrazol-5-ylmethyl)carboxamide



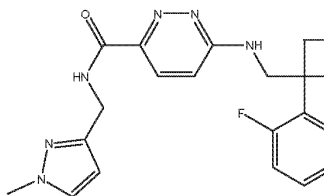
382.3 D

[6-({[(3-fluoro(2-pyridyl))cyclobutyl)methyl]amino}pyridazin-3-yl)-N-[(1-methylpyrazol-5-yl)methyl]carboxamide



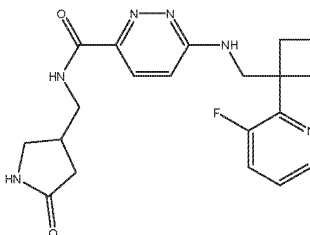
396.3 D

[6-({[(3-fluoro(2-pyridyl))cyclobutyl)methyl]amino}pyridazin-3-yl)-N-[(1-methylpyrazol-3-yl)methyl]carboxamide



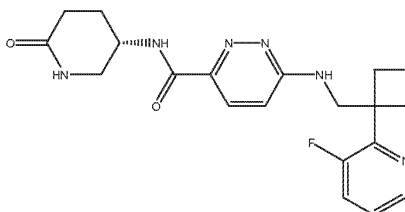
396.3 D

[6-({[(3-fluoro(2-pyridyl))cyclobutyl)methyl]amino}pyridazin-3-yl)-N-[(5-oxopyrrolidin-3-yl)methyl]carboxamide



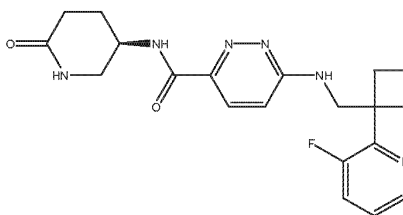
385.3 D

N-((3S)-6-oxo(3-piperidyl))[6-({[(3-fluoro(2-pyridyl))cyclobutyl)methyl]amino}pyridazin-3-yl)carboxamide



399.3 D

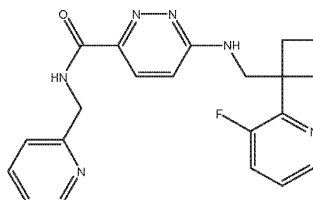
N-((3R)-6-oxo(3-piperidyl))[6-({[(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]carboxamide



399.3

D

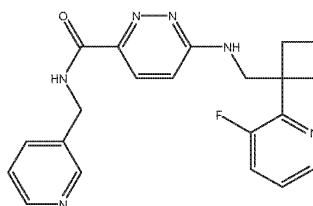
[6-({[(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]-N-(2-pyridylmethyl)carboxamide



393.3

D

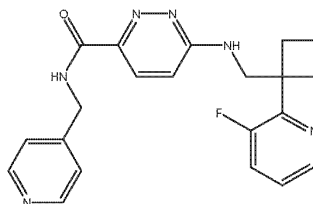
[6-({[(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]-N-(3-pyridylmethyl)carboxamide



393.3

C

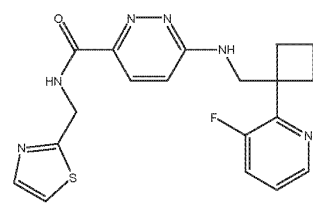
[6-({[(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]-N-(4-pyridylmethyl)carboxamide



393.3

D

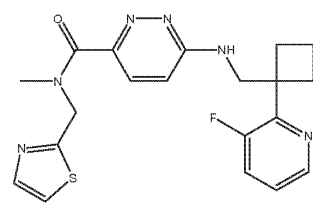
[6-({[(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]-N-(1,3-thiazol-2-ylmethyl)carboxamide



399.3

D

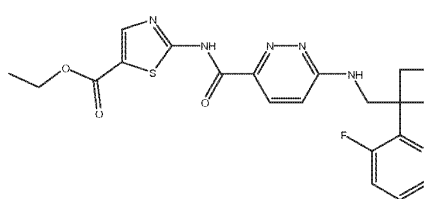
[6-({[(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]-N-methyl-N-(1,3-thiazol-2-ylmethyl)carboxamide



413.2

D

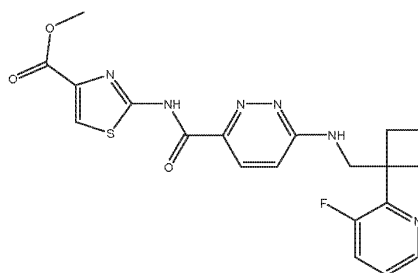
ethyl 2-([6-({[(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]carbonylamino)-1,3-thiazole-5-carboxylate



457.3

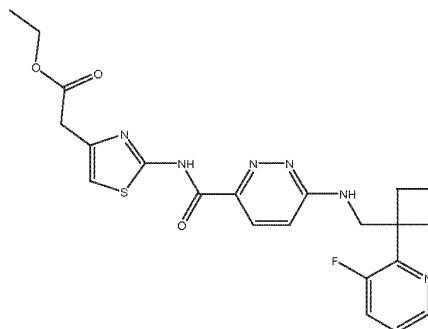
D

methyl 2-([6-([3-fluoro-2-pyridyl)cyclobutyl)methyl]amino)pyridazin-3-yl]carbonylamino)-1,3-thiazole-4-carboxylate



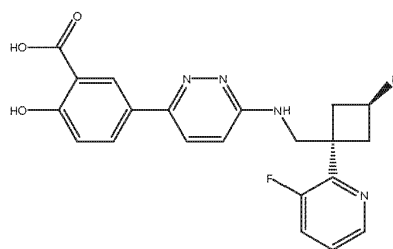
443.2 B

ethyl 2-([6-([3-fluoro-2-pyridyl)cyclobutyl)methyl]amino)pyridazin-3-yl]carbonylamino)-1,3-thiazol-4-yl)acetate



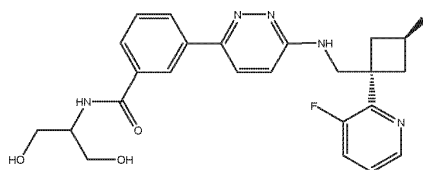
471.3 A

5-[6-([3-fluoro-1-(3-fluoro(2-pyridyl))cyclobutyl)methyl]amino)pyridazin-3-yl]-2-hydroxybenzoic acid



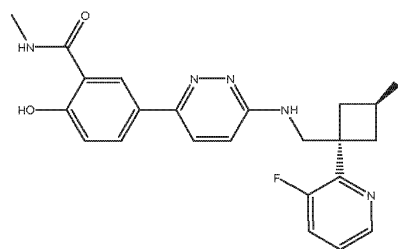
413.1 B

{3-[6-([3-fluoro-1-(3-fluoro(2-pyridyl))cyclobutyl)methyl]amino)pyridazin-3-yl]phenyl}-N-[2-hydroxy-1-(hydroxymethyl)ethyl]carboxamide



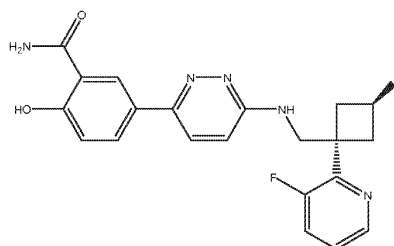
470.2 B

{5-[6-([3-fluoro-1-(3-fluoro(2-pyridyl))cyclobutyl)methyl]amino)pyridazin-3-yl]-2-hydroxyphenyl}-N-methylcarboxamide



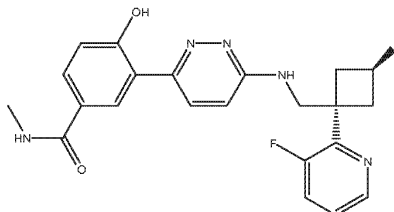
426.1 B

5-[6-({[3-fluoro-1-(3-fluoro(2-pyridyl)cyclobutyl)methyl]amino}pyridazin-3-yl)-2-hydroxybenzamide



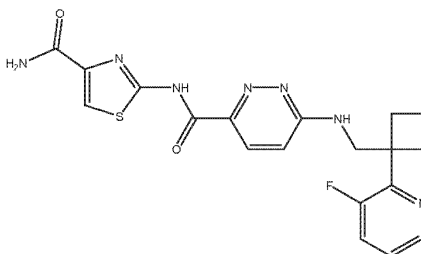
412.1 A

{3-[6-({[3-fluoro-1-(3-fluoro(2-pyridyl)cyclobutyl)methyl]amino}pyridazin-3-yl)-4-hydroxyphenyl]-N-methylcarboxamide



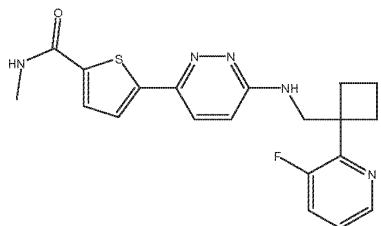
426.2 B

2-{{6-({[3-fluoro-2-pyridyl]cyclobutyl)methyl}amino}pyridazin-3-yl]carbonylamino}-1,3-thiazole-4-carboxamide



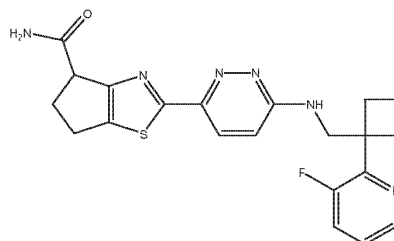
428.1 A

{5-[6-({[3-fluoro(2-pyridyl)cyclobutyl)methyl]amino}pyridazin-3-yl)(2-thienyl)]-N-methylcarboxamide



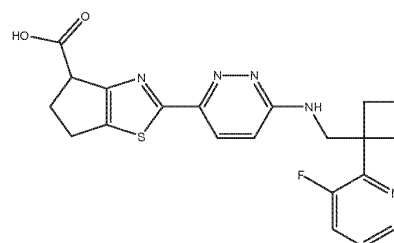
398.1 B

2-[6-({[3-fluoro-2-pyridyl]cyclobutyl)methyl}amino}pyridazin-3-yl]-4,5,6-trihydrocyclopenta[1,2-d]1,3-thiazole-4-carboxamide

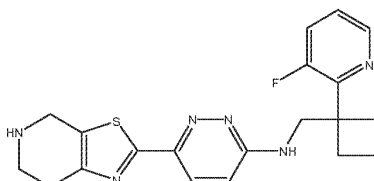
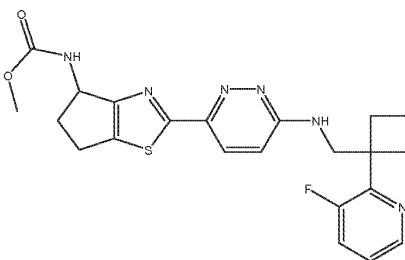
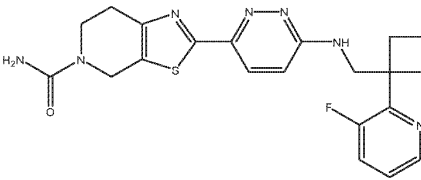
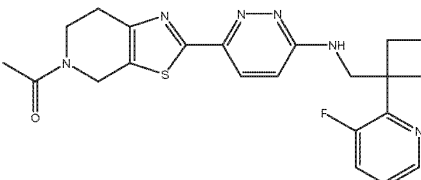
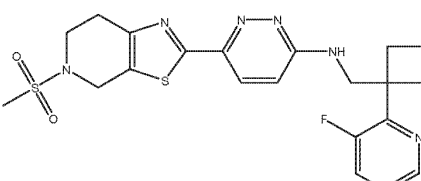
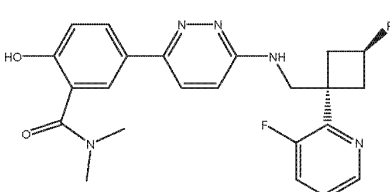


425.3 D

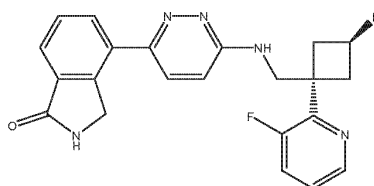
2-[6-({[3-fluoro-2-pyridyl]cyclobutyl)methyl}amino}pyridazin-3-yl]-4,5,6-trihydrocyclopenta[1,2-d]1,3-thiazole-4-carboxylic acid



426.3 D

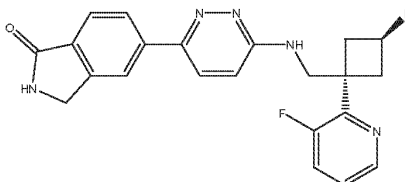
{[(3-fluoro(2-pyridyl)cyclobutyl)methyl](6-(4,5,6,7-tetrahydro-1,3-thiazolo[5,4-c]pyridin-2-yl)pyridazin-3-yl)amine		397.5	D
N-{2-[6-({[(3-fluoro(2-pyridyl)cyclobutyl)methyl]amino)pyridazin-3-yl](4,5,6-trihydrocyclopenta[2,3-d]1,3-thiazol-4-yl)}methoxycarboxamide		455.1	D
2-[6-({[(3-fluoro(2-pyridyl)cyclobutyl)methyl]amino)pyridazin-3-yl]-4,5,6,7-tetrahydro-1,3-thiazolo[5,4-c]pyridine-5-carboxamide		440.1	D
5-acetyl-2-[6-({[(3-fluoro(2-pyridyl)cyclobutyl)methyl]amino)pyridazin-3-yl]-4,5,6,7-tetrahydro-1,3-thiazolo[5,4-c]pyridine		439.3	D
2-[6-({[(3-fluoro(2-pyridyl)cyclobutyl)methyl]amino)pyridazin-3-yl]-5-(methylsulfonyl)-4,5,6,7-tetrahydro-1,3-thiazolo[5,4-c]pyridine		475.3	D
{5-[6-({[(3-fluoro(1-(3-fluoro(2-pyridyl)cyclobutyl)methyl]amino)pyridazin-3-yl]-2-hydroxyphenyl)-N,N-dimethylcarboxamide		440.1	B

4-[6-({[3-fluoro-1-(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]isoindolin-1-one



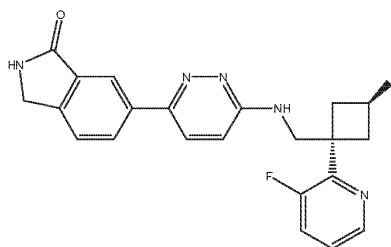
408.1 B

5-[6-({[3-fluoro-1-(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]isoindolin-1-one



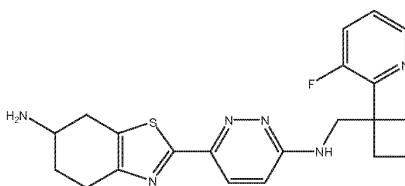
408.1 C

6-[6-({[3-fluoro-1-(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]isoindolin-1-one



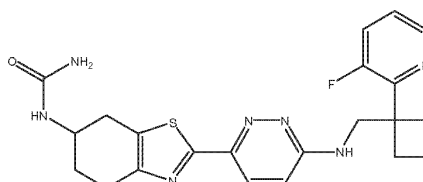
408.1 B

[6-(6-amino(4,5,6,7-tetrahydrobenzothiazol-2-yl))pyridazin-3-yl]({[3-fluoro(2-pyridyl))cyclobutyl]methyl}amine



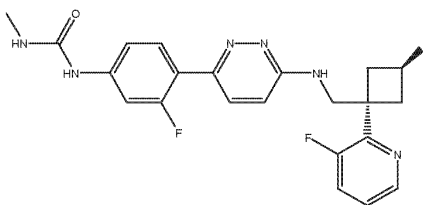
411.5 D

amino-N-{2-[6-({[3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl](4,5,6,7-tetrahydrobenzothiazol-6-yl)}amide



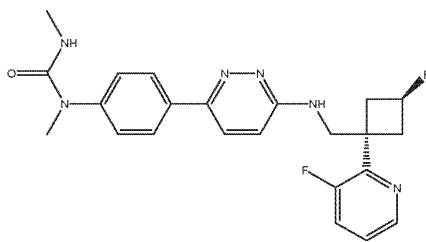
454.3 D

N-{3-fluoro-4-[6-({[3-fluoro-1-(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]phenyl}(methylamino)carboxamide



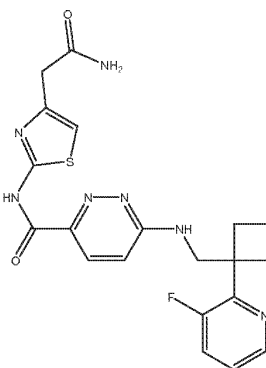
443.3 A

N-{4-[6-({[3-fluoro-1-(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]phenyl}-N-methyl(methylamino)carboxamide



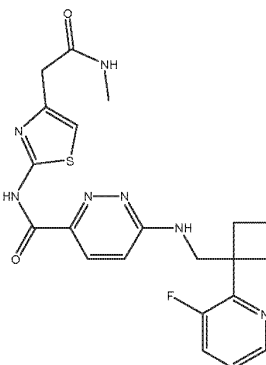
439.3 D

N-[4-(carbamoylmethyl)(1,3-thiazol-2-yl)][6-({[3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]carboxamide



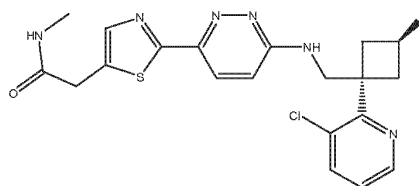
442.1 A

2-(2-{[6-({[3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]carbonylamino}(1,3-thiazol-4-yl))-N-methylacetamide



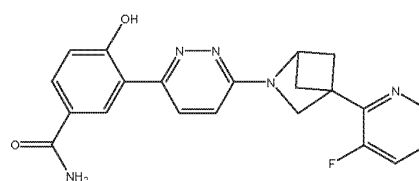
456.2 A

2-{2-[6-({[1-(3-chloro(2-pyridyl))-3-fluorocyclobutyl]methyl}amino)pyridazin-3-yl](1,3-thiazol-5-yl))-N-methylacetamide



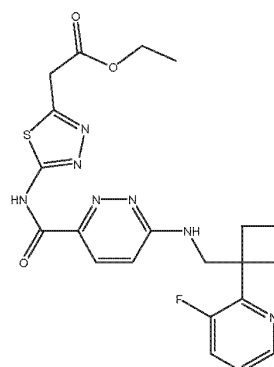
447.3 B

3-{6-[4-(3-fluoro(2-pyridyl))-2-azabicyclo[2.1.1]hex-2-yl]pyridazin-3-yl}-4-hydroxybenzamide



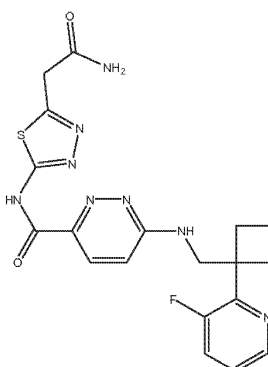
392.1 D

ethyl 2-(5-([6-([[(3-fluoro-2-pyridyl)cyclobutyl]methyl)amino]pyridazin-3-yl]carbonylamino)-1,3,4-thiadiazol-2-yl)acetate



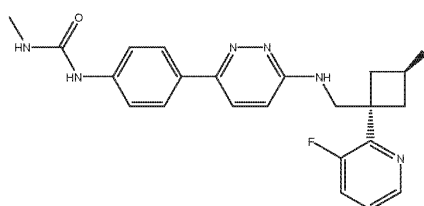
472.3 D

N-[5-(carbamoylmethyl)(1,3,4-thiadiazol-2-yl)][6-([[(3-fluoro(2-pyridyl))cyclobutyl]methyl)amino]pyridazin-3-yl]carboxamide



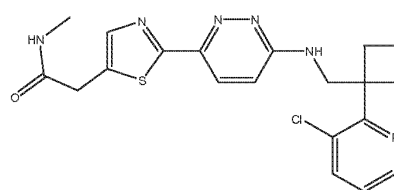
443.2 D

N-{4-[6-([[(3-fluoro-1-(3-fluoro(2-pyridyl))cyclobutyl]methyl)amino]pyridazin-3-yl]phenyl}(methylamino)carboxamide



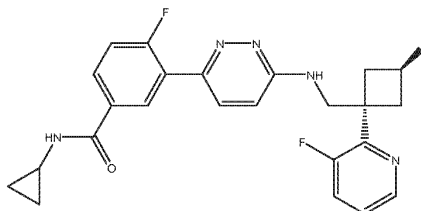
425.3 A

2-{2-[6-([[(3-chloro(2-pyridyl))cyclobutyl]methyl)amino]pyridazin-3-yl](1,3-thiazol-5-yl)}-N-methylacetamide



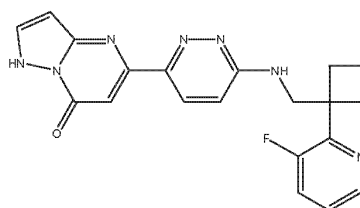
429.2 A

N-cyclopropyl{4-fluoro-3-[6-([[(3-fluoro-1-(3-fluoro(2-pyridyl))cyclobutyl]methyl)amino]pyridazin-3-yl]phenyl}carboxamide



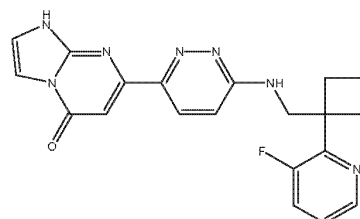
454.3 A

5-[6-({[(3-fluoro-2-pyridyl)cyclobutyl]methyl}amino)pyridazin-3-yl]-8-hydro-3-pyrazolino[1,5-a]pyrimidin-7-one



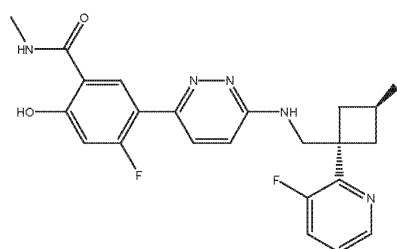
392.1 B

7-[6-({[(3-fluoro-2-pyridyl)cyclobutyl]methyl}amino)pyridazin-3-yl]-4-hydro-4-imidazolino[1,2-a]pyrimidin-5-one



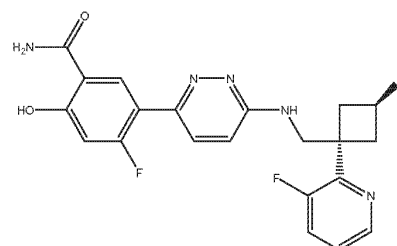
392.3 B

{4-fluoro-5-[6-({[(3-fluoro-1-(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]-2-hydroxyphenyl]-N-methylcarboxamide



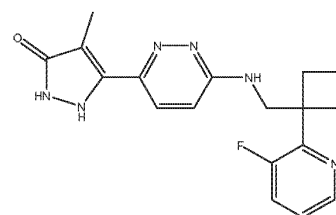
444.1 A

4-fluoro-5-[6-({[(3-fluoro-1-(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]-2-hydroxybenzamide



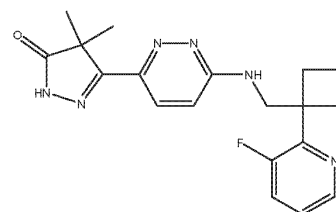
430.1 A

3-[6-({[(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]-4-methyl-3-pyrazolin-5-one



355.1 D

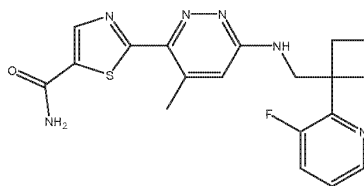
3-[6-({[(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]-4,4-dimethyl-2-pyrazolin-5-one



369.2 D

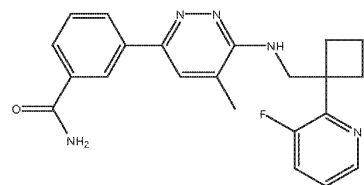
{[(3-fluoro(2-pyridyl))cyclobutyl)methyl][6-benzylpyridazin-3-yl]amine		349.3	D
3-[6-({[(3-fluoro(2-pyridyl))cyclobutyl)methyl]amino)-4-methylpyridazin-3-yl]benzenecarbonitrile		374.1	C
3-[6-({[(3-fluoro(2-pyridyl))cyclobutyl)methyl]amino)-4-methylpyridazin-3-yl]benzamide		392.1	C
N-cyclobutyl{4-fluoro-3-[6-({[(3-fluoro(2-pyridyl))cyclobutyl)methyl]amino)pyridazin-3-yl]phenyl}carboxamide		468.3	A
4-fluoro-3-[6-({[(3-fluoro(2-pyridyl))cyclobutyl)methyl]amino)-4-methylpyridazin-3-yl]benzamide		410.1	C
N-(3,3-difluorocyclobutyl){4-fluoro-3-[6-({[(3-fluoro(2-pyridyl))cyclobutyl)methyl]amino)pyridazin-3-yl]phenyl}carboxamide		504.3	A
4-fluoro-3-[6-({[(3-fluoro(2-pyridyl))cyclobutyl)methyl]amino)pyridazin-3-yl]-2-hydroxybenzamide		430.0	A

2-[6-({[3-fluoro(2-pyridyl)cyclobutyl]methyl}amino)-4-methylpyridazin-3-yl]-1,3-thiazole-5-carboxamide



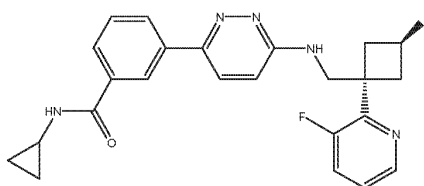
399.1 A

3-[6-({[3-fluoro(2-pyridyl)cyclobutyl]methyl}amino)-5-methylpyridazin-3-yl]benzamide



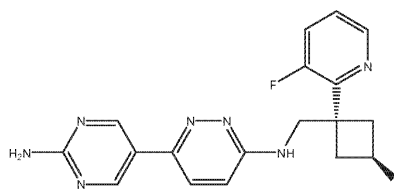
392.1 D

N-cyclopropyl{3-[6-({[3-fluoro-1-(3-fluoro(2-pyridyl)cyclobutyl]methyl}amino)pyridazin-3-yl]phenyl}carboxamide



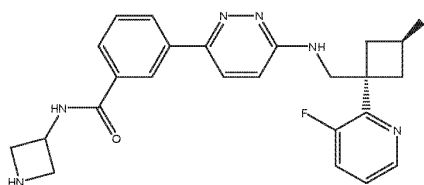
436.3 B

[6-(2-aminopyrimidin-5-yl)pyridazin-3-yl]{[3-fluoro-1-(3-fluoro(2-pyridyl)cyclobutyl]methyl}amine



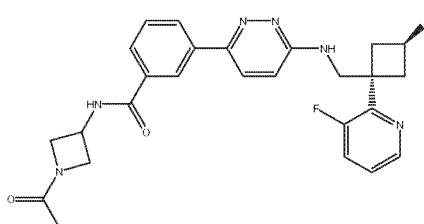
370.1 B

N-azetidin-3-yl{3-[6-({[3-fluoro-1-(3-fluoro(2-pyridyl)cyclobutyl]methyl}amino)pyridazin-3-yl]phenyl}carboxamide



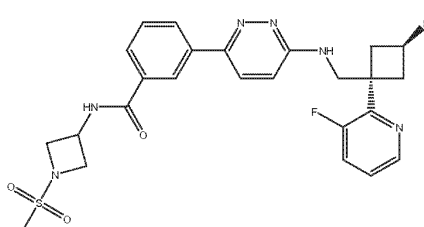
451.2 B

N-(1-acetylazetidin-3-yl){3-[6-({[3-fluoro-1-(3-fluoro(2-pyridyl)cyclobutyl]methyl}amino)pyridazin-3-yl]phenyl}carboxamide

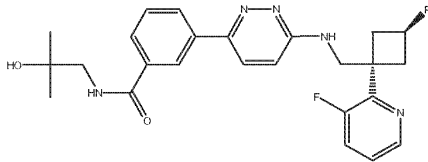
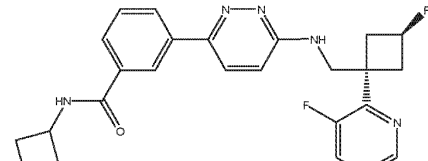
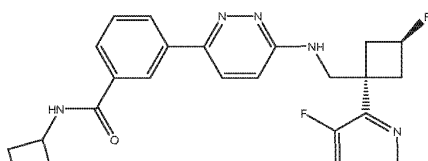
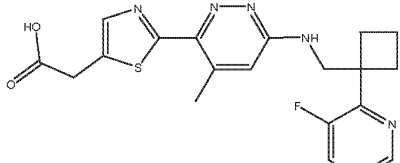
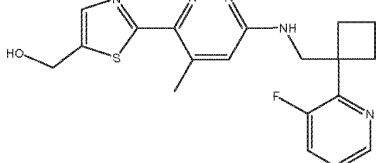
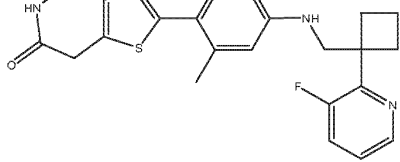
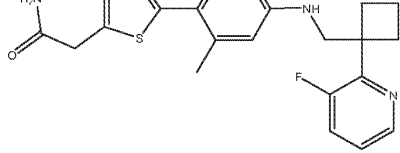


493.3 B

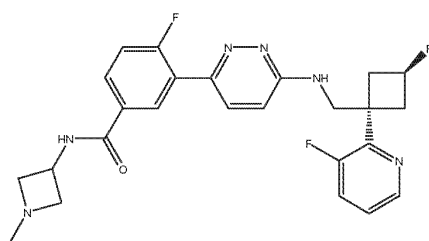
{3-[6-({[3-fluoro-1-(3-fluoro(2-pyridyl)cyclobutyl]methyl}amino)pyridazin-3-yl]phenyl}-N-[1-(methylsulfonyl)azetidin-3-yl]carboxamide



529.3 B

{3-[6-({[3-fluoro-1-(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]phenyl}-N-(2-hydroxy-2-methylpropyl)carboxamide		468.3	B
{3-[6-({[3-fluoro-1-(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]phenyl}-N-(1-methylazetidin-3-yl)carboxamide		465.3	B
{3-[6-({[3-fluoro-1-(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]phenyl}-N-oxetan-3-ylcarboxamide		452.3	B
2-{2-[6-({[3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)-4-methylpyridazin-3-yl]-1,3-thiazol-5-yl}acetic acid		414.1	B
{2-[6-({[3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)-4-methylpyridazin-3-yl]-1,3-thiazol-5-yl}methan-1-ol		386.1	B
2-{2-[6-({[3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)-4-methylpyridazin-3-yl]-(1,3-thiazol-5-yl))-N-methylacetamide		427.2	B
2-{2-[6-({[3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)-4-methylpyridazin-3-yl]-1,3-thiazol-5-yl}acetamide		413.1	B

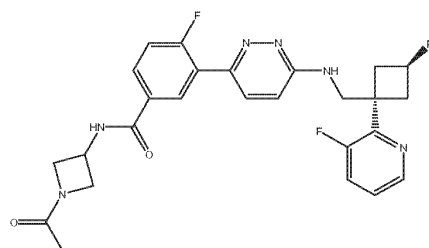
{4-fluoro-3-[6-({[3-fluoro-1-(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]phenyl}-N-(1-methylazetidin-3-yl)carboxamide



483.3

B

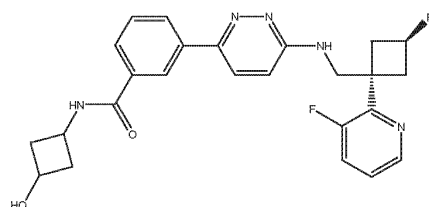
N-(1-acetylazetidin-3-yl){4-fluoro-3-[6-({[3-fluoro-1-(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]phenyl}carboxamide



511.3

A

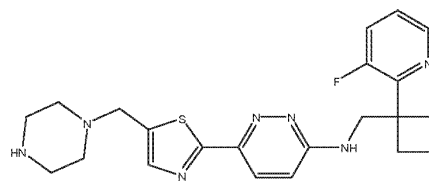
{3-[6-({[3-fluoro-1-(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]phenyl}-N-(3-hydroxycyclobutyl)carboxamide



466.3

B

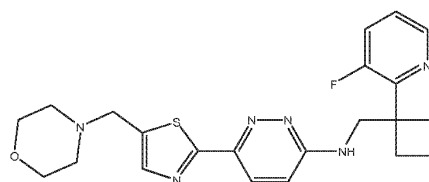
{{[3-fluoro(2-pyridyl))cyclobutyl]methyl}{6-[5-(piperazinylmethyl)(1,3-thiazol-2-yl)]pyridazin-3-yl}amine



440.3

B

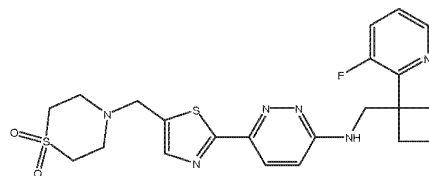
{{[3-fluoro(2-pyridyl))cyclobutyl]methyl}{6-[5-(morpholin-4-ylmethyl)(1,3-thiazol-2-yl)]pyridazin-3-yl}amine



441.3

B

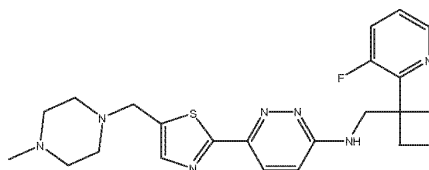
4-({2-[6-({[3-fluoro-2-pyridyl)cyclobutyl]methyl}amino)pyridazin-3-yl]-1,3-thiazol-5-yl)methyl-1,4-thiazaperhydroine-1,1-dione



489.3

D

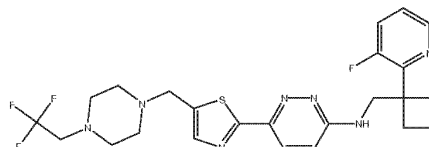
{[(3-fluoro(2-pyridyl))cyclobutyl)methyl]{6-{5-[(4-methylpiperazinyl)methyl](1,3-thiazol-2-yl)}}pyridazin-3-yl}amine



454.3

B

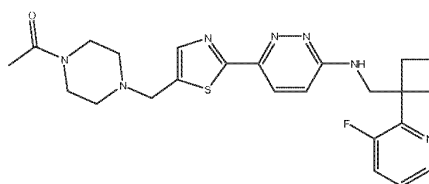
{[(3-fluoro(2-pyridyl))cyclobutyl)methyl]{6-{5-[4-(2,2,2-trifluoroethyl)piperazinyl)methyl](1,3-thiazol-2-yl)}}pyridazin-3-yl}amine



522.2

B

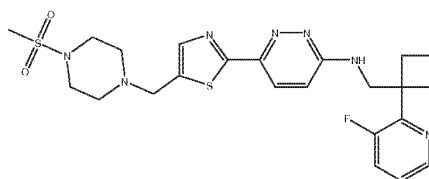
1-acetyl-4-({2-[6-({[(3-fluoro(2-pyridyl))cyclobutyl)methyl]amino}pyridazin-3-yl)](1,3-thiazol-5-yl))methyl}piperazine



482.3

D

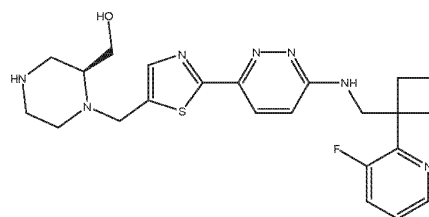
1-({2-[6-({[(3-fluoro(2-pyridyl))cyclobutyl)methyl]amino}pyridazin-3-yl)](1,3-thiazol-5-yl))methyl)-4-(methylsulfonyl)piperazine



518.3

D

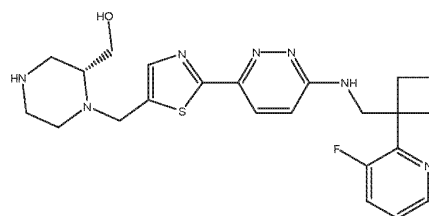
[(2S)-1-({2-[6-({[(3-fluoro(2-pyridyl))cyclobutyl)methyl]amino}pyridazin-3-yl)](1,3-thiazol-5-yl))methyl}piperazin-2-yl]methanol



470.3

B

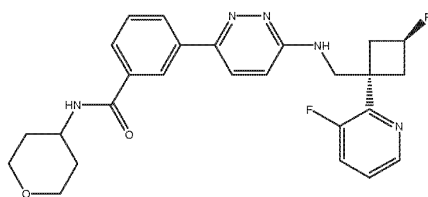
[(2R)-1-({2-[6-({[(3-fluoro(2-pyridyl))cyclobutyl)methyl]amino}pyridazin-3-yl)](1,3-thiazol-5-yl))methyl}piperazin-2-yl]methanol



470.3

C

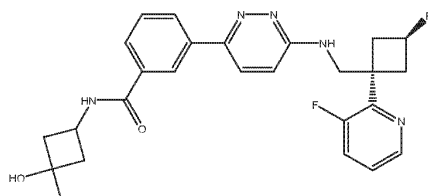
N-(2H-3,4,5,6-tetrahydropyran-4-yl){3-[6-({[3-fluoro-1-(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]phenyl}carboxamide



480.3

B

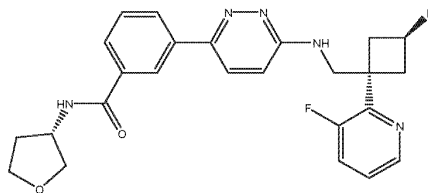
{3-[6-({[3-fluoro-1-(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]phenyl}-N-(3-hydroxy-3-methylcyclobutyl)carboxamide



480.3

B

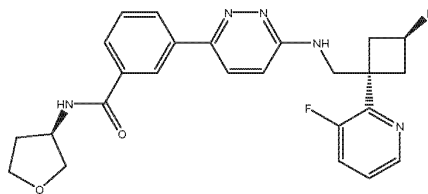
N-((3S)oxolan-3-yl){3-[6-({[3-fluoro-1-(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]phenyl}carboxamide



466.3

B

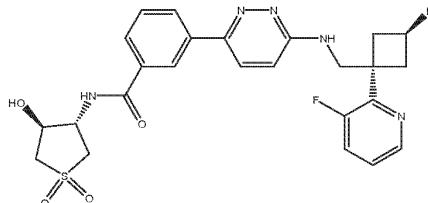
N-((3R)oxolan-3-yl){3-[6-({[3-fluoro-1-(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]phenyl}carboxamide



466.3

B

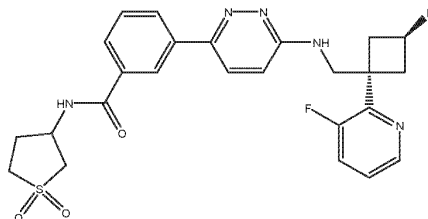
N-((3S,4S)-4-hydroxy-1,1-dioxothiolan-3-yl){3-[6-({[3-fluoro-1-(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]phenyl}carboxamide



530.3

B

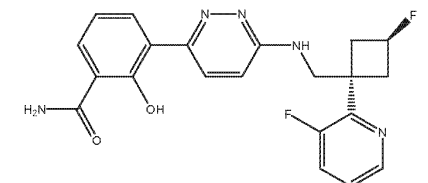
N-(1,1-dioxothiolan-3-yl){3-[6-({[3-fluoro-1-(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]phenyl}carboxamide



514.3

B

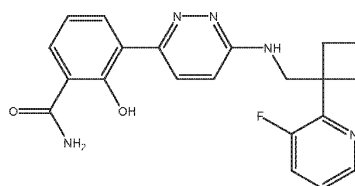
3-[6-({[3-fluoro-1-(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]-2-hydroxybenzamide



412.1

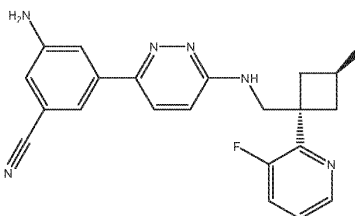
A

3-[6-({[3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]-2-hydroxybenzamide



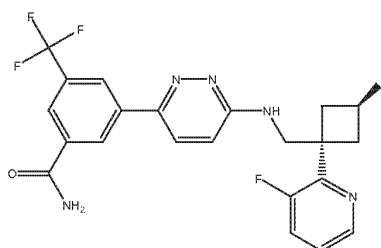
394.2 A

5-amino-3-[6-({[3-fluoro-1-(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]benzenecarbonitrile



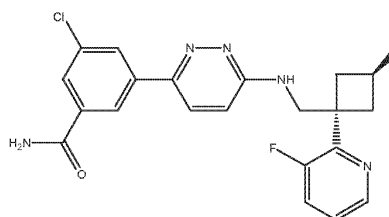
393.1 A

3-[6-({[3-fluoro-1-(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]-5-(trifluoromethyl)benzamide



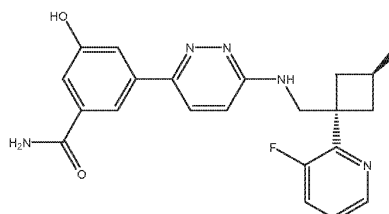
464.1 B

5-chloro-3-[6-({[3-fluoro-1-(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]benzamide



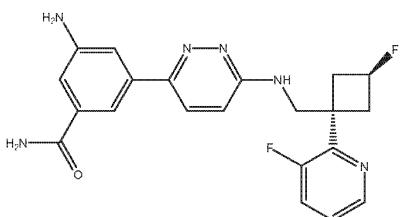
430.1 B

3-[6-({[3-fluoro-1-(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]-5-hydroxybenzamide



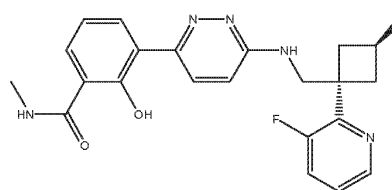
412.1 A

5-amino-3-[6-({[3-fluoro-1-(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]benzamide



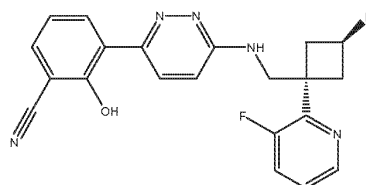
411.2 B

{3-[6-({[3-fluoro-1-(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]-2-hydroxyphenyl}-N-methylcarboxamide



426.2 A

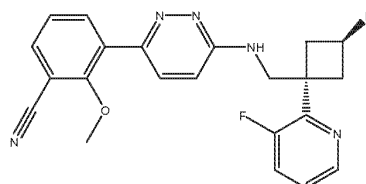
3-[6-({[3-fluoro-1-(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]-2-



394.1 B

hydroxybenzenecarbonitrile

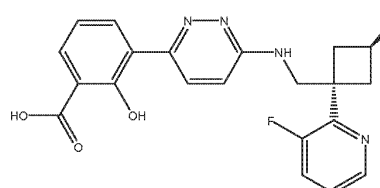
3-[6-({[3-fluoro-1-(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]-2-



408.1 C

methoxybenzenecarbonitrile

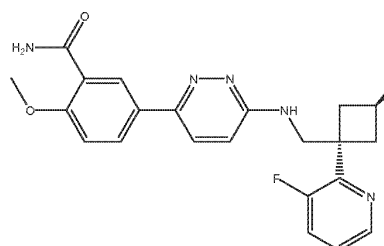
3-[6-({[3-fluoro-1-(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]-2-hydroxybenzoic



413.1 C

acid

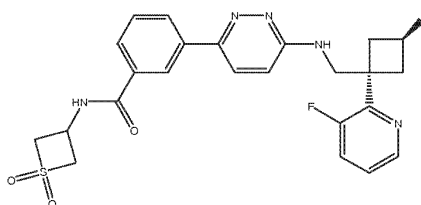
5-[6-({[3-fluoro-1-(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]-2-



426.1 B

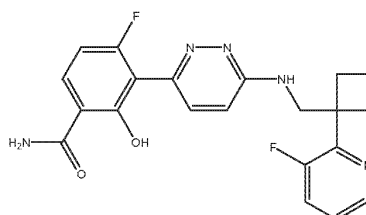
methoxybenzamide

N-(1,1-dioxothietan-3-yl){3-[6-({[3-fluoro-1-(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]phenyl}carboxamide



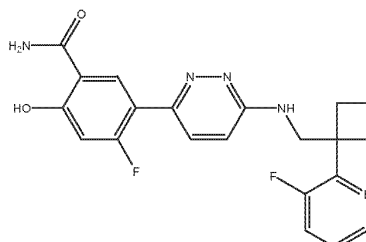
500.3 B

4-fluoro-3-[6-({[3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]-2-hydroxybenzamide



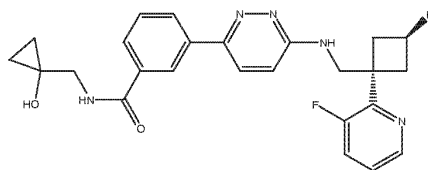
412.1 A

4-fluoro-5-[6-({[3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]-2-hydroxybenzamide



412.1 A

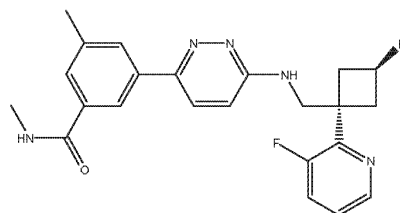
{3-[6-({[3-fluoro-1-(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]phenyl}-N-[(hydroxycyclopropyl)methyl]carboxamide



466.1

A

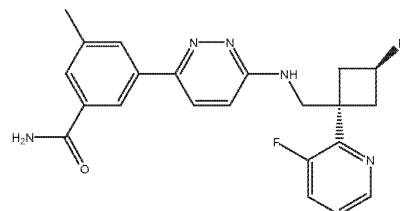
{3-[6-({[3-fluoro-1-(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]-5-methylphenyl}-N-methylcarboxamide



424.1

B

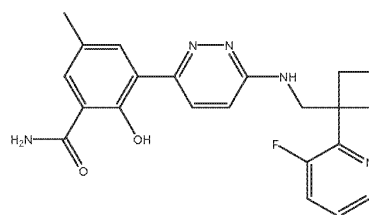
3-[6-({[3-fluoro-1-(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]-5-methylbenzamide



410.0

B

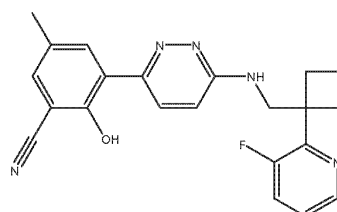
3-[6-({[3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]-2-hydroxy-5-methylbenzamide



408.2

B

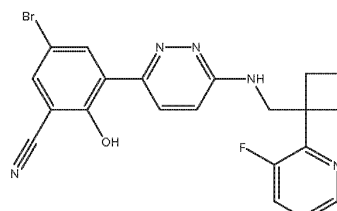
3-[6-({[3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]-2-hydroxy-5-methylbenzenecarbonitrile



390.2

B

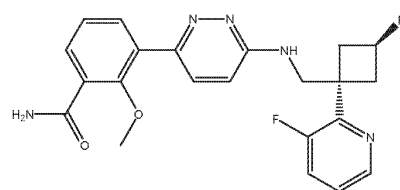
5-bromo-3-[6-({[3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]-2-hydroxybenzenecarbonitrile



454.0

A

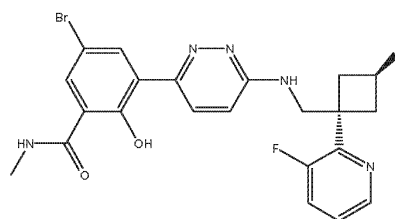
3-[6-({[3-fluoro-1-(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]-2-methoxybenzamide



426.2

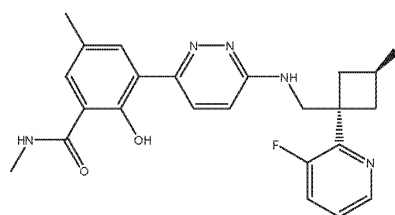
D

{5-bromo-3-[6-({[3-fluoro-1-(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]-2-hydroxyphenyl]-N-methylcarboxamide



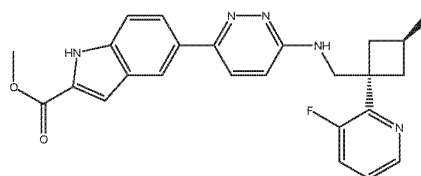
507.0 B

{3-[6-({[3-fluoro-1-(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]-2-hydroxy-5-methylphenyl]-N-methylcarboxamide



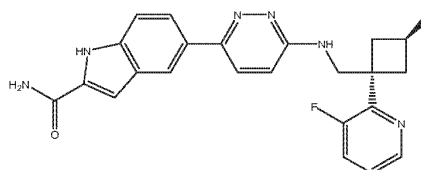
440.2 B

methyl 5-[6-({[3-fluoro-1-(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]indole-2-carboxylate



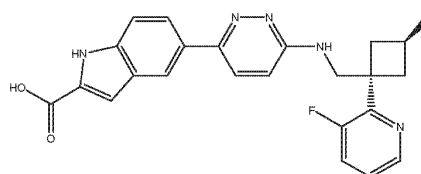
450.2 A

5-[6-({[3-fluoro-1-(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]indole-2-carboxamide



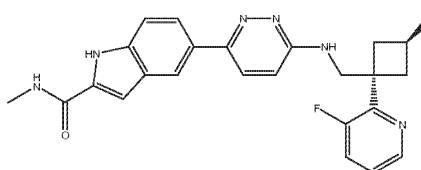
435.2 A

5-[6-({[3-fluoro-1-(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]indole-2-carboxylic acid



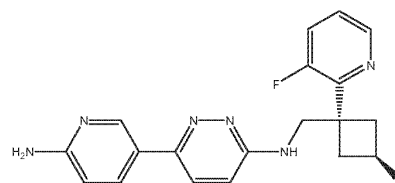
436.2 B

{5-[6-({[3-fluoro-1-(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]indol-2-yl]-N-methylcarboxamide



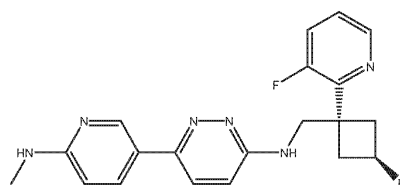
449.1 A

[6-(6-amino(3-pyridyl))pyridazin-3-yl]([3-fluoro-1-(3-fluoro(2-pyridyl))cyclobutyl]methyl)amine



369.3 A

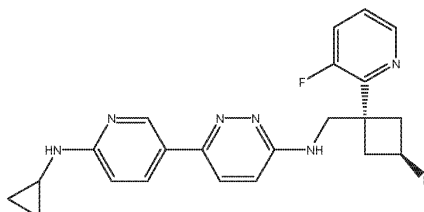
{[3-fluoro-1-(3-fluoro(2-pyridyl)cyclobutyl)methyl]{6-[6-(methylamino)(3-pyridyl)]pyridazin-3-yl}amine



383.3

B

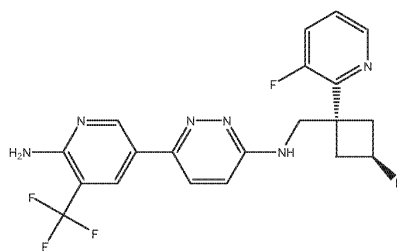
{6-[6-(cyclopropylamino)(3-pyridyl)]pyridazin-3-yl}{[3-fluoro-1-(3-fluoro(2-pyridyl)cyclobutyl)methyl}amine



409.3

D

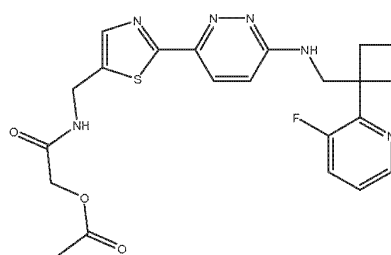
{6-[6-amino-5-(trifluoromethyl)(3-pyridyl)]pyridazin-3-yl}{[3-fluoro-1-(3-fluoro(2-pyridyl)cyclobutyl)methyl}amine



437.0

B

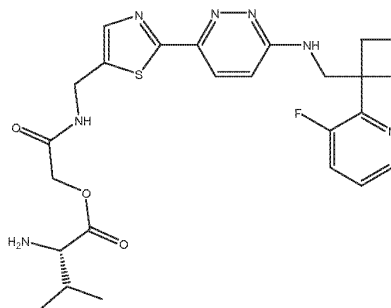
[N-({2-[6-({[3-fluoro-2-pyridyl)cyclobutyl)methyl}amino]pyridazin-3-yl}-1,3-thiazol-5-yl)methyl)carbamoyl)methyl acetate



470.1

A

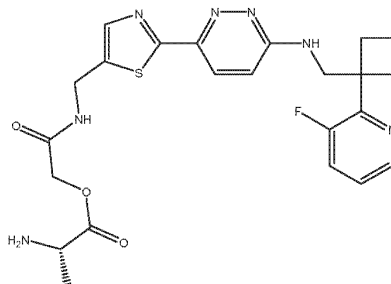
[N-({2-[6-({[3-fluoro-2-pyridyl)cyclobutyl)methyl}amino]pyridazin-3-yl}-1,3-thiazol-5-yl)methyl)carbamoyl)methyl (2S)-2-amino-3-methylbutanoate



528.2

A

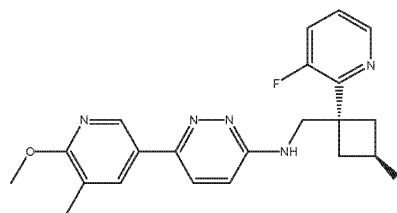
[N-({2-[6-({[3-fluoro-2-pyridyl)cyclobutyl)methyl}amino]pyridazin-3-yl}-1,3-thiazol-5-yl)methyl)carbamoyl)methyl (2S)-2-aminopropanoate



500.2

A

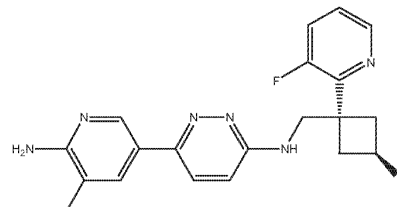
{[3-fluoro-1-(3-fluoro(2-pyridyl)cyclobutyl)methyl]}[6-(6-methoxy-5-methyl(3-pyridyl))pyridazin-3-yl]amine



398.3

D

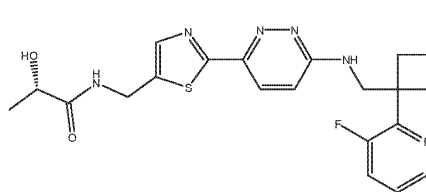
[6-(6-amino-5-methyl(3-pyridyl))pyridazin-3-yl]{[3-fluoro-1-(3-fluoro(2-pyridyl)cyclobutyl)methyl]amine



383.3

B

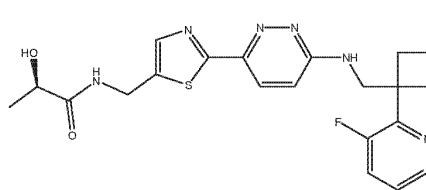
(2S)-N-({2-[6-({[3-fluoro(2-pyridyl)cyclobutyl)methyl]amino}pyridazin-3-yl)}(1,3-thiazol-5-yl)methyl)-2-hydroxypropanamide



443.1

A

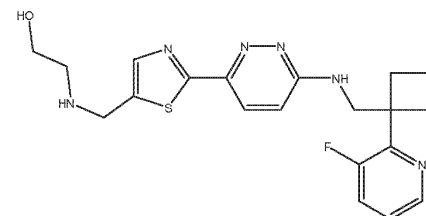
(2R)-N-({2-[6-({[3-fluoro(2-pyridyl)cyclobutyl)methyl]amino}pyridazin-3-yl)}(1,3-thiazol-5-yl)methyl)-2-hydroxypropanamide



443.1

A

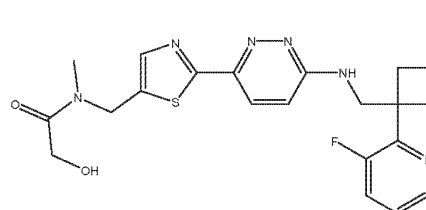
2-[(2-[6-({[3-fluoro(2-pyridyl)cyclobutyl)methyl]amino}pyridazin-3-yl)-1,3-thiazol-5-yl)methyl]amino]ethan-1-ol



415.1

B

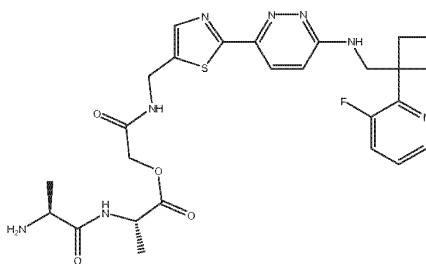
N-({2-[6-({[3-fluoro(2-pyridyl)cyclobutyl)methyl]amino}pyridazin-3-yl)}(1,3-thiazol-5-yl)methyl)-2-hydroxy-N-methylacetamide



443.1

B

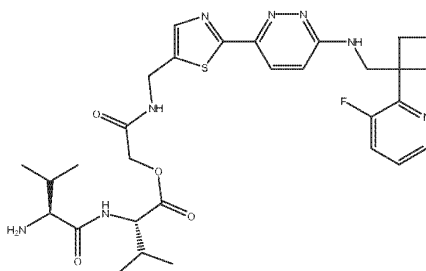
[N-({2-[6-({[(3-fluoro-2-pyridyl)cyclobutyl)methyl]amino)pyridazin-3-yl]-1,3-thiazol-5-yl)methyl}carbamoyl)methyl (2S)-2-((2S)-2-aminopropanoylamino)propanoate



571.1

A

[N-({2-[6-({[(3-fluoro-2-pyridyl)cyclobutyl)methyl]amino)pyridazin-3-yl]-1,3-thiazol-5-yl)methyl}carbamoyl)methyl (2S)-2-((2S)-2-amino-3-methylbutanoylamino)-3-methylbutanoate



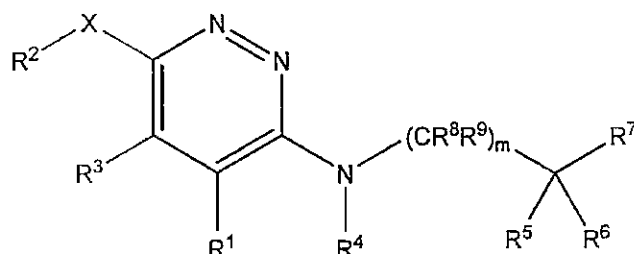
627.3

A

While the present invention has been described with reference to the specific embodiments described herein, it should be understood by those skilled in the art that various changes may be made and equivalents may be substituted without departing from the true spirit and scope of the invention. In addition, modifications may be made to adapt a particular situation, material, composition of matter and/or process to the objective, spirit and scope of the present invention. All such modifications are intended to be within the scope of the claims appended hereto.

CLAIMS

1. A compound of Formula I:



Formula I

or a pharmaceutically acceptable salt thereof, wherein:

R^1 is selected from hydrogen, halogen, CN, C_{1-6} alkyl, and $C(O)NR^bR^c$,

R^2 is selected from C_{3-8} cycloalkyl, C_{3-8} cycloalkenyl, 3-8 membered heterocycloalkyl, 3-8 membered heterocycloalkenyl, C_{6-10} aryl, and 5-10 membered heteroaryl, wherein each of the C_{3-8} cycloalkyl, C_{3-8} cycloalkenyl, 3-8 membered heterocycloalkyl, 3-8 membered heterocycloalkenyl, C_{6-10} aryl and 5-10 membered heteroaryl groups is optionally substituted with 1, 2, 3, 4 or 5 substituents selected from halogen, CN, oxo, $(CH_2)_nOR^a$, $(CH_2)_nNR^bR^c$, $(CH_2)_nNR^dC(O)R^a$, $(CH_2)_nNR^dC(O)OR^a$, $(CH_2)_nNR^dC(O)NR^bR^c$, $(CH_2)_nNR^dC(NR^e)NR^bR^c$, $(CH_2)_nNR^dS(O)R^a$, $(CH_2)_nNR^dSO_2R^a$, $(CH_2)_nNR^dSO_2NR^bR^c$, $(CH_2)_nC(O)R^a$, $(CH_2)_nC(O)OR^a$, $(CH_2)_nC(O)NR^bR^c$, $(CH_2)_nC(S)NR^bR^c$, $(CH_2)_nC(NR^e)NR^bR^c$, $(CH_2)_nSO_2R^a$, $(CH_2)_nSO_2NR^bR^c$, C_{1-6} alkyl, C_{1-6} haloalkyl, C_{2-6} alkenyl, $(CH_2)_n$ 3-8 membered heterocycloalkyl, and $(CH_2)_n$ 5-10 membered heteroaryl, wherein each of the C_{1-6} alkyl, C_{2-6} alkenyl, $(CH_2)_n$ 3-8 membered heterocycloalkyl, and $(CH_2)_n$ 5-10 membered heteroaryl groups is optionally substituted with 1, 2, 3, 4 or 5 R^f substituents;

R^3 is selected from hydrogen, and C_{1-6} alkyl;

R^4 is selected from hydrogen, C_{1-6} alkyl, $C(O)OR^a$, and SO_2R^a ;

R^5 and R^6 together with the carbon atom to which they are bound form a group selected from C_{3-8} cycloalkyl, C_{3-8} cycloalkenyl, 3-8 membered heterocycloalkyl and 3-8 membered heterocycloalkenyl, each optionally substituted with 1, 2 or 3-substituents

selected from halogen, OR^a , C(O)R^a , C(O)OR^a , SO_2R^a , and C_{1-6} alkyl;

R^7 is selected from C_{3-8} cycloalkyl, C_{3-8} cycloalkenyl, 3-8 membered heterocycloalkyl, 3-8 membered heterocycloalkenyl, C_{6-10} aryl and 5-10 membered heteroaryl, each optionally substituted with 1, 2, 3, 4 or 5 substituents selected from halogen, CN, oxo, OR^a , C(O)OR^a , $\text{C(O)NR}^b\text{R}^c$, C_{1-6} alkyl, and C_{1-6} haloalkyl, wherein the C_{1-6} alkyl is optionally substituted with 1, 2, 3, 4 or 5 R^f substituents;

R^8 and R^9 , at each occurrence, are each hydrogen;

X is a bond;

R^a , at each occurrence, is independently selected from hydrogen, C_{1-6} alkyl, C_{1-6} haloalkyl, C_{3-8} cycloalkyl, 3-8 membered heterocycloalkyl, C_{6-10} aryl, C_{7-11} aralkyl and 5-10 membered heteroaryl, wherein each of the C_{1-6} alkyl, C_{3-8} cycloalkyl, 3-8 membered heterocycloalkyl, C_{6-10} aryl, C_{7-11} aralkyl and 5-10 membered heteroaryl groups is optionally substituted with 1, 2, 3, 4 or 5 R^f substituents;

R^b and R^c , at each occurrence, are each independently selected from hydrogen, C_{1-6} alkyl, C_{1-6} haloalkyl, C_{3-8} cycloalkyl, and 3-8 membered heterocycloalkyl, wherein each of the C_{1-6} alkyl, C_{3-8} cycloalkyl, and 3-8 membered heterocycloalkyl groups is optionally substituted with 1, 2, 3, 4 or 5 R^f substituents;

R^d , at each occurrence, is independently selected from hydrogen and C_{1-6} alkyl;

R^e , at each occurrence, is independently selected from hydrogen, CN, and C_{1-6} alkyl;

R^f , at each occurrence, is independently selected from halogen, CN, OR^h , OC(O)R^h , NR^iR^j , $\text{NR}^d\text{C(O)R}^h$, $\text{NR}^d\text{C(O)OR}^h$, C(O)R^h , C(O)OR^h , $\text{C(O)NR}^i\text{R}^j$, S(O)R^h , SO_2R^h , C_{1-6} alkyl, C_{1-6} haloalkyl, C_{3-8} cycloalkyl, and 3-8 membered heterocycloalkyl, wherein each of the C_{1-6} alkyl, C_{3-8} cycloalkyl and 3-8 membered heterocycloalkyl groups is optionally substituted with 1, 2, 3, 4 or 5 R^k substituents;

or two R^f substituents bound to a single carbon atom, together with the carbon atom to which they are both bound, form a carbonyl;

R^h , at each occurrence, is independently selected from hydrogen, C_{1-6} alkyl, C_{1-6} haloalkyl, C_{2-6} alkenyl, C_{2-6} alkynyl, C_{3-8} cycloalkyl, C_{3-8} cycloalkenyl, 3-8 membered heterocycloalkyl, 3-8 membered heterocycloalkenyl, C_{6-10} aryl, C_{7-11} aralkyl and 5-10 membered heteroaryl, wherein each of the C_{1-6} alkyl, C_{2-6} alkenyl, C_{2-6} alkynyl, C_{3-8} cycloalkyl, C_{3-8} cycloalkenyl, 3-8 membered heterocycloalkyl, 3-8 membered heterocycloalkenyl, C_{6-10} aryl, C_{7-11} aralkyl and 5-10 membered heteroaryl groups is optionally substituted with 1, 2, 3, 4 or 5 R^k substituents;

R^i and R^j , at each occurrence, are each independently selected from hydrogen and C_{1-6} alkyl;

R^k , at each occurrence, is independently selected from halogen, OH, NH_2 , and $OC(O)C_{1-6}$ alkyl;

m is 0 or 1; and

n, at each occurrence, independently is 0, 1 or 2

2. The compound of claim 1, or a pharmaceutically acceptable salt thereof, wherein m is 0.
3. The compound of claim 1, or a pharmaceutically acceptable salt thereof, wherein m is 1.
4. The compound of any one of claims 1 to 3, or a pharmaceutically acceptable salt thereof, wherein R^5 and R^6 together with the carbon atom to which they are bound form a group selected from C_{3-8} cycloalkyl, and 3-8 membered heterocycloalkyl, each optionally substituted with 1 or 2 substituents selected from halogen, OR^a , $C(O)R^a$, $C(O)OR^a$, SO_2R^a , and C_{1-6} alkyl.
5. The compound of claim 4, or a pharmaceutically acceptable salt thereof, wherein R^5 and R^6 together with the carbon atom to which they are bound form C_{3-8} cycloalkyl optionally substituted with 1 or 2 substituents selected from halogen, OR^a , and C_{1-6} alkyl.
6. The compound of claim 5, or a pharmaceutically acceptable salt thereof, wherein R^5 and R^6 together with the carbon atom to which they are bound form a group selected from cyclopropyl, cyclobutyl, cyclopentyl and cyclohexyl, each optionally substituted with

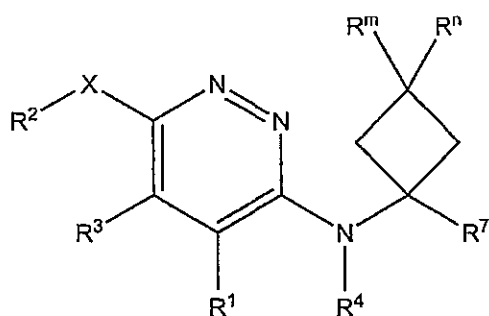
1 or 2 substituents selected from halogen, OR^a , C(O)R^a , C(O)OR^a , SO_2R^a , and C_{1-6} alkyl.

7. The compound of claim 6, or a pharmaceutically acceptable salt thereof, wherein R^5 and R^6 together with the carbon atom to which they are bound form cyclobutyl optionally substituted with 1 or 2 substituents selected from halogen, OR^a , and C_{1-6} alkyl.

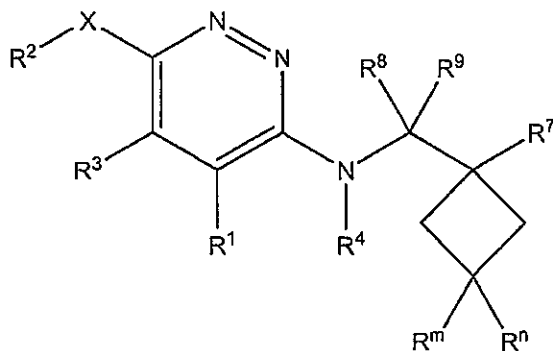
8. The compound of claim 7, or a pharmaceutically acceptable salt thereof, wherein R^5 and R^6 together with the carbon atom to which they are bound form cyclobutyl optionally substituted with one or two halogens.

9. The compound of claim 8, or a pharmaceutically acceptable salt thereof, wherein R^5 and R^6 together with the carbon atom to which they are bound form a group selected from cyclobutyl, 3-fluorocyclobutyl and 3,3-difluorocyclobutyl.

10. The compound of claim 1, wherein the compound is of Formula V(a) or V(b), or a pharmaceutically acceptable salt thereof:



Formula V(a)



Formula V(b)

wherein R^m and R^n are each independently selected from hydrogen, halogen and C_{1-6} alkyl.

11. The compound of claim 10, wherein one of R^m and R^n is hydrogen and the other is halogen.

12. The compound of claim 11, wherein the halogen and R^7 are in a *trans* configuration with respect to one another on the cyclobutyl ring.

13. The compound of claim 12, wherein the halogen and R^7 are in a *cis* configuration with respect to one another on the cyclobutyl ring.

14. The compound of any one of claims 10 to 13, wherein one of R^m and R^n is hydrogen and the other is fluorine.

15. The compound of any one of claims 1 to 14, or a pharmaceutically acceptable salt thereof, wherein R^7 is phenyl optionally substituted with 1, 2, 3, 4 or 5 substituents selected from halogen, CN, OR^a , $C(O)OR^a$, $C(O)NR^bR^c$, C_{1-6} alkyl, and C_{1-6} haloalkyl, wherein the C_{1-6} alkyl is optionally substituted with 1 or 2 R^f substituents.

16. The compound of any one of claims 1 to 14, or a pharmaceutically acceptable salt thereof, wherein R^7 is 5-10 membered heteroaryl optionally substituted with 1, 2, 3, 4 or 5 substituents selected from halogen, CN, OR^a , $C(O)OR^a$, $C(O)NR^bR^c$, C_{1-6} alkyl, and C_{1-6} haloalkyl, wherein the C_{1-6} alkyl is optionally substituted with 1 or 2 R^f substituents.

17. The compound of claim 16, or a pharmaceutically acceptable salt thereof, wherein R^7 is pyridyl optionally substituted with 1, 2, 3, 4 or 5 substituents selected from halogen, CN, OR^a , $C(O)OR^a$, $C(O)NR^bR^c$, C_{1-6} alkyl, and C_{1-6} haloalkyl, wherein the C_{1-6} alkyl is optionally substituted with 1 or 2 R^f substituents.

18. The compound of claim 17, or a pharmaceutically acceptable salt thereof, wherein R^7 is 2-pyridyl optionally substituted with 1, 2, 3, 4 or 5 substituents selected from halogen, CN, OR^a , $C(O)OR^a$, $C(O)NR^bR^c$, C_{1-6} alkyl, and C_{1-6} haloalkyl, wherein the C_{1-6} alkyl is optionally substituted with 1 or 2 R^f substituents.

19. The compound of any one of claims 1 to 18, or a pharmaceutically acceptable salt thereof, wherein R^2 is phenyl optionally substituted with 1, 2, 3, 4 or 5 substituents selected from halogen, CN, $(CH_2)_nOR^a$, $(CH_2)_nNR^bR^c$, $(CH_2)_nNR^dC(O)R^a$, $(CH_2)_nNR^dC(O)OR^a$, $(CH_2)_nNR^dC(O)NR^bR^c$, $(CH_2)_nNR^dC(NR^e)NR^bR^c$, $(CH_2)_nNR^dS(O)R^a$, $(CH_2)_nNR^dSO_2R^a$, $(CH_2)_nNR^dSO_2NR^bR^c$, $(CH_2)_nC(O)R^a$, $(CH_2)_nC(O)OR^a$, $(CH_2)_nC(O)NR^bR^c$, $(CH_2)_nC(S)NR^bR^c$, $(CH_2)_nC(NR^e)NR^bR^c$, $(CH_2)_nSO_2R^a$, $(CH_2)_nSO_2NR^bR^c$, C_{1-6} alkyl, C_{1-6} haloalkyl, C_{2-6} alkenyl, $(CH_2)_n$ 3-8 membered heterocycloalkyl, and $(CH_2)_n$ 5-10 membered heteroaryl, wherein each of the C_{1-6} alkyl, C_{2-6} alkenyl, $(CH_2)_n$ 3-8 membered heterocycloalkyl, and $(CH_2)_n$ 5-10 membered heteroaryl groups is optionally substituted with 1, 2, 3, 4 or 5 R^f substituents.

20. The compound of any one of claims 1 to 18, or a pharmaceutically acceptable salt thereof, wherein R^2 is 5-10 membered heteroaryl optionally substituted with 1, 2, 3, 4 or 5 substituents selected from halogen, CN, $(CH_2)_nOR^a$, $(CH_2)_nNR^bR^c$, $(CH_2)_nNR^dC(O)R^a$, $(CH_2)_nNR^dC(O)OR^a$, $(CH_2)_nNR^dC(O)NR^bR^c$, $(CH_2)_nNR^dC(NR^e)NR^bR^c$, $(CH_2)_nNR^dS(O)R^a$, $(CH_2)_nNR^dSO_2R^a$, $(CH_2)_nNR^dSO_2NR^bR^c$, $(CH_2)_nC(O)R^a$, $(CH_2)_nC(O)OR^a$, $(CH_2)_nC(O)NR^bR^c$, $(CH_2)_nC(S)NR^bR^c$, $(CH_2)_nC(NR^e)NR^bR^c$, $(CH_2)_nSO_2R^a$, $(CH_2)_nSO_2NR^bR^c$, C_{1-6} alkyl, C_{1-6} haloalkyl, C_{2-6} alkenyl, $(CH_2)_n$ 3-8 membered heterocycloalkyl, and $(CH_2)_n$ 5-10 membered heteroaryl, wherein each of the C_{1-6} alkyl, C_{2-6} alkenyl, $(CH_2)_n$ 3-8 membered heterocycloalkyl, and $(CH_2)_n$ 5-10 membered heteroaryl groups is optionally substituted with 1, 2, 3, 4 or 5 R^f substituents.

21. The compound of claim 20, or a pharmaceutically acceptable salt thereof, wherein R^2 is selected from pyridyl, pyrimidyl, pyrazyl, pyridazyl, pyrrolyl, pyrazolyl, thiophenyl, thiazolyl, thiadiazolyl, oxazolyl, isoxazolyl, oxadiazolyl, imidazolyl, triazolyl and tetrazolyl, each optionally substituted with 1, 2, 3 or 4 substituents selected from halogen, CN, $(CH_2)_nOR^a$, $(CH_2)_nNR^bR^c$, $(CH_2)_nNR^dC(O)R^a$, $(CH_2)_nNR^dC(O)OR^a$, $(CH_2)_nNR^dC(O)NR^bR^c$, $(CH_2)_nNR^dC(NR^e)NR^bR^c$, $(CH_2)_nNR^dS(O)R^a$, $(CH_2)_nNR^dSO_2R^a$, $(CH_2)_nNR^dSO_2NR^bR^c$, $(CH_2)_nC(O)R^a$, $(CH_2)_nC(O)OR^a$, $(CH_2)_nC(O)NR^bR^c$, $(CH_2)_nC(S)NR^bR^c$, $(CH_2)_nC(NR^e)NR^bR^c$, $(CH_2)_nSO_2R^a$, $(CH_2)_nSO_2NR^bR^c$, C_{1-6} alkyl, C_{1-6} haloalkyl, C_{2-6} alkenyl, $(CH_2)_n$ 3-8 membered heterocycloalkyl, and $(CH_2)_n$ 5-10 membered heteroaryl, wherein each of the C_{1-6} alkyl, C_{2-6} alkenyl, $(CH_2)_n$ 3-8 membered

heterocycloalkyl, and $(\text{CH}_2)_n$ 5-10 membered heteroaryl groups is optionally substituted with 1 or 2 R^f substituents.

22. The compound of claim 20, or a pharmaceutically acceptable salt thereof, wherein R^2 is selected from pyridyl, pyrimidyl, pyrazyl, pyridazyl, pyrrolyl, pyrazolyl, thiophenyl, thiazolyl, thiadiazolyl, oxazolyl, isoxazolyl, oxadiazolyl, imidazolyl, triazolyl and tetrazolyl, each optionally substituted with a substituent selected from $(\text{CH}_2)_n\text{C}(\text{O})\text{OR}^a$ and $(\text{CH}_2)_n\text{C}(\text{O})\text{NR}^b\text{R}^c$; and optionally substituted with 1, 2 or 3 additional substituents selected from halogen, CN, $(\text{CH}_2)_n\text{OR}^a$, $(\text{CH}_2)_n\text{NR}^b\text{R}^c$, $(\text{CH}_2)_n\text{NR}^d\text{C}(\text{O})\text{R}^a$, $(\text{CH}_2)_n\text{NR}^d\text{C}(\text{O})\text{OR}^a$, $(\text{CH}_2)_n\text{NR}^d\text{C}(\text{O})\text{NR}^b\text{R}^c$, $(\text{CH}_2)_n\text{NR}^d\text{C}(\text{NR}^e)\text{NR}^b\text{R}^c$, $(\text{CH}_2)_n\text{NR}^d\text{S}(\text{O})\text{R}^a$, $(\text{CH}_2)_n\text{NR}^d\text{SO}_2\text{R}^a$, $(\text{CH}_2)_n\text{NR}^d\text{SO}_2\text{NR}^b\text{R}^c$, $(\text{CH}_2)_n\text{C}(\text{O})\text{R}^a$, $(\text{CH}_2)_n\text{C}(\text{O})\text{OR}^a$, $(\text{CH}_2)_n\text{C}(\text{O})\text{NR}^b\text{R}^c$, $(\text{CH}_2)_n\text{C}(\text{S})\text{NR}^b\text{R}^c$, $(\text{CH}_2)_n\text{C}(\text{NR}^e)\text{NR}^b\text{R}^c$, $(\text{CH}_2)_n\text{SO}_2\text{R}^a$, $(\text{CH}_2)_n\text{SO}_2\text{NR}^b\text{R}^c$, C_{1-6} alkyl, C_{1-6} haloalkyl, C_{2-6} alkenyl, $(\text{CH}_2)_n$ 3-8 membered heterocycloalkyl, and $(\text{CH}_2)_n$ 5-10 membered heteroaryl, wherein each of the C_{1-6} alkyl, C_{2-6} alkenyl, $(\text{CH}_2)_n$ 3-8 membered heterocycloalkyl, and $(\text{CH}_2)_n$ 5-10 membered heteroaryl groups is optionally substituted with 1 or 2 R^f substituents.

23. The compound of claim 20, or a pharmaceutically acceptable salt thereof, wherein R^2 is selected from pyrrolyl, pyrazolyl, thiophenyl, thiazolyl, thiadiazolyl, oxazolyl, isoxazolyl, oxadiazolyl, imidazolyl, triazolyl and tetrazolyl, each optionally substituted with $(\text{CH}_2)_n\text{C}(\text{O})\text{NR}^b\text{R}^c$.

24. The compound of claim 20, or a pharmaceutically acceptable salt thereof, wherein R^2 is selected from pyridyl, pyrimidyl, pyrazyl, pyridazyl, pyrrolyl, pyrazolyl, thiophenyl, thiazolyl, thiadiazolyl, oxazolyl, isoxazolyl, oxadiazolyl, imidazolyl, triazolyl and tetrazolyl, each optionally substituted with $(\text{CH}_2)_n\text{NR}^d\text{C}(\text{O})\text{R}^a$, wherein R^a is C_{1-6} alkyl optionally substituted with 1, 2 or 3 additional substituents selected from halogen, $(\text{CH}_2)_n\text{OR}^a$, $(\text{CH}_2)_n\text{NR}^b\text{R}^c$, and C_{1-6} haloalkyl.

25. The compound of claim 20, or a pharmaceutically acceptable salt thereof, wherein R^2 is selected from pyrrolyl, pyrazolyl, thiophenyl, thiazolyl, thiadiazolyl, oxazolyl, isoxazolyl, oxadiazolyl, imidazolyl, triazolyl and tetrazolyl, each optionally substituted with $(\text{CH}_2)_n\text{NR}^d\text{C}(\text{O})\text{R}^a$, wherein R^a is selected from C_{1-6} alkyl, C_{1-6} alkyl-OH

and C₁₋₆ alkyl-NH₂.

26. The compound of claim 20, or a pharmaceutically acceptable salt thereof, wherein R² is selected from indolyl, indazolyl, benzimidazolyl, benzoxazolyl and benzoisoxazolyl, each optionally substituted with 1, 2, 3 or 4 substituents selected from halogen, CN, (CH₂)_nOR^a, (CH₂)_nNR^bR^c, (CH₂)_nNR^dC(O)R^a, (CH₂)_nNR^dC(O)OR^a, (CH₂)_nNR^dC(O)NR^bR^c, (CH₂)_nNR^dC(NR^e)NR^bR^c, (CH₂)_nNR^dS(O)R^a, (CH₂)_nNR^dSO₂R^a, (CH₂)_nNR^dSO₂NR^bR^c, (CH₂)_nC(O)R^a, (CH₂)_nC(O)OR^a, (CH₂)_nC(O)NR^bR^c, (CH₂)_nC(S)NR^bR^c, (CH₂)_nC(NR^e)NR^bR^c, (CH₂)_nSO₂R^a, (CH₂)_nSO₂NR^bR^c, C₁₋₆ alkyl, C₁₋₆ haloalkyl, C₂₋₆ alkenyl, (CH₂)_n3-8 membered heterocycloalkyl, and (CH₂)_n5-10 membered heteroaryl, wherein each of the C₁₋₆ alkyl, C₂₋₆ alkenyl, (CH₂)_n3-8 membered heterocycloalkyl, and (CH₂)_n5-10 membered heteroaryl groups is optionally substituted with 1 or 2 R^f substituents.

27. The compound of any one of claims 1 to 26, or a pharmaceutically acceptable salt thereof, wherein R¹ is selected from hydrogen, halogen, CN, and methyl.

28. The compound of claim 27, or a pharmaceutically acceptable salt thereof, wherein R¹ is hydrogen.

29. The compound of any one of claims 1 to 28, or a pharmaceutically acceptable salt thereof, wherein R³ is selected from hydrogen and methyl.

30. The compound of claim 29, or a pharmaceutically acceptable salt thereof, wherein R³ is hydrogen.

31. The compound of any one of claims 1 to 30, or a pharmaceutically acceptable salt thereof, wherein R⁴ is hydrogen.

32. The compound of claim 1, or a pharmaceutically acceptable salt thereof, wherein:
m is 0;

R² is selected from phenyl and 5-10 membered heteroaryl optionally substituted with 1, 2, 3, 4 or 5 substituents selected from halogen, CN, (CH₂)_nOR^a, (CH₂)_nNR^bR^c, (CH₂)_nNR^dC(O)R^a, (CH₂)_nNR^dC(O)OR^a, (CH₂)_nNR^dC(O)NR^bR^c, (CH₂)_nNR^dS(O)R^a, (CH₂)_nNR^dSO₂R^a, (CH₂)_nNR^dSO₂NR^bR^c, (CH₂)_nC(O)R^a, (CH₂)_nC(O)OR^a, (CH₂)_nC(O)NR^bR^c, (CH₂)_nSO₂R^a, (CH₂)_nSO₂NR^bR^c, C₁₋₆ alkyl, C₁₋₆ haloalkyl, and C₂₋₆

alkenyl, wherein each of the C₁₋₆ alkyl, and C₂₋₆ alkenyl groups is optionally substituted with 1, 2, 3, 4 or 5 R^f substituents;

R⁴ is hydrogen;

R⁵ and R⁶ together with the carbon atom to which they are bound form cyclobutyl optionally substituted with one or two halogens; and

R⁷ is selected from phenyl and pyridyl, each optionally substituted with 1, 2 or 3 substituents selected from halogen, CN, OR^a, C₁₋₆ alkyl, and C₁₋₆ haloalkyl.

33. The compound of claim 1, or a pharmaceutically acceptable salt thereof, wherein: m is 1;

R² is selected from phenyl and 5-10 membered heteroaryl optionally substituted with 1, 2, 3, 4 or 5 substituents selected from halogen, CN, (CH₂)_nOR^a, (CH₂)_nNR^bR^c, (CH₂)_nNR^dC(O)R^a, (CH₂)_nNR^dC(O)OR^a, (CH₂)_nNR^dC(O)NR^bR^c, (CH₂)_nNR^dS(O)R^a, (CH₂)_nNR^dSO₂R^a, (CH₂)_nNR^dSO₂NR^bR^c, (CH₂)_nC(O)R^a, (CH₂)_nC(O)OR^a, (CH₂)_nC(O)NR^bR^c, (CH₂)_nSO₂R^a, (CH₂)_nSO₂NR^bR^c, C₁₋₆ alkyl, C₁₋₆ haloalkyl, and C₂₋₆ alkenyl, wherein each of the C₁₋₆ alkyl, and C₂₋₆ alkenyl groups is optionally substituted with 1, 2, 3, 4 or 5 R^f substituents;

R⁴ is hydrogen;

R⁵ and R⁶ together with the carbon atom to which they are bound form cyclobutyl optionally substituted with one or two halogens;

R⁷ is selected from phenyl and pyridyl, each optionally substituted with 1, 2 or 3 substituents selected from halogen, CN, OR^a, C₁₋₆ alkyl, and C₁₋₆ haloalkyl;

R⁸ is hydrogen; and

R⁹ is hydrogen.

34. The compound of claim 32 or 33, or a pharmaceutically acceptable salt thereof, wherein R¹ is hydrogen and R³ is hydrogen.

35. The compound of claim 1, wherein the compound is 4-fluoro-3-[6-({[3-fluoro-1-(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]benzamide, or a pharmaceutically acceptable salt thereof.

36. The compound of claim 1, wherein the compound is 4-fluoro-3-[6-({[(*trans*)-3-fluoro-1-(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]benzamide, or a

pharmaceutically acceptable salt thereof.

37. The compound of claim 1, wherein the compound is 4-fluoro-3-[6-({[(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]benzamide, or a pharmaceutically acceptable salt thereof.

38. The compound of claim 1, wherein the compound is [6-(3-amino(1H-indazol-5-yl))pyridazin-3-yl]{[(3-fluoro(2-pyridyl))cyclobutyl]methyl}amine, or a pharmaceutically acceptable salt thereof.

39. The compound of claim 1, wherein the compound is [6-(3-amino(1H-indazol-5-yl))pyridazin-3-yl]{[3-fluoro-1-(3-fluoro(2-pyridyl))cyclobutyl]methyl}amine, or a pharmaceutically acceptable salt thereof.

40. The compound of claim 1, wherein the compound is [6-(3-amino(1H-indazol-5-yl))pyridazin-3-yl]{[(*trans*)-3-fluoro-1-(3-fluoro(2-pyridyl))cyclobutyl]methyl}amine, or a pharmaceutically acceptable salt thereof.

41. The compound of claim 1, wherein the compound is N-({2-[6-({[(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl](1,3-thiazol-5-yl)}methyl)-2-hydroxyacetamide, or a pharmaceutically acceptable salt thereof.

42. The compound of claim 1, wherein the compound is 2-amino-N-({2-[6-({[(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl](1,3-thiazol-5-yl)}methyl)-2-methylpropanamide, or a pharmaceutically acceptable salt thereof.

43. The compound of claim 1, wherein the compound is (2S)-2-amino-N-({2-[6-({[(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl](1,3-thiazol-5-yl)}methyl)propanamide, or a pharmaceutically acceptable salt thereof.

44. The compound of claim 1, wherein the compound is (2R)-2-amino-N-({2-[6-({[(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl](1,3-thiazol-5-yl)}methyl)propanamide, or a pharmaceutically acceptable salt thereof.

45. The compound of claim 1, wherein the compound is (2S)-2-amino-N-({2-[6-({[(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl](1,3-thiazol-5-yl)}methyl)-3-hydroxy-3-methylbutanamide, or a pharmaceutically acceptable salt thereof.

46. The compound of claim 1, wherein the compound is selected from:
- 3-(6-(((4-fluorophenyl)cyclobutyl)amino)pyridazin-3-yl)benzamide;
 - (6-(1H-indazol-5-yl)pyridazin-3-yl)[(4-fluorophenyl)cyclobutyl]amine;
 - [6-(2-aminopyrimidin-5-yl)pyridazin-3-yl][(4-fluorophenyl)cyclobutyl]amine;
 - amino-N-[4-(6-(((4-fluorophenyl)cyclobutyl)amino)pyridazin-3-yl)phenyl]amide;
 - 3-(6-(((2-fluorophenyl)cyclobutyl)amino)pyridazin-3-yl)benzamide;
 - 3-(6-(((3-fluorophenyl)cyclobutyl)amino)pyridazin-3-yl)benzamide;
 - 3-(6-[(2-pyridyl)cyclobutyl]amino)pyridazin-3-yl}benzamide;
 - (phenylcyclobutyl)(6-phenylpyridazin-3-yl)amine;
 - 3-(6-[(phenylcyclobutyl)amino]pyridazin-3-yl}benzamide;
 - 3-(6-(((3-fluoro-2-pyridyl)cyclobutyl)amino)pyridazin-3-yl)benzamide;
 - 3-(6-(((5-fluoro-2-pyridyl)cyclobutyl)amino)pyridazin-3-yl)benzamide;
 - 4-fluoro-3-(6-(((4-fluorophenyl)cyclobutyl)amino)pyridazin-3-yl)benzamide;
 - [(4-fluorophenyl)cyclobutyl][6-(6-methoxy(2-pyridyl))pyridazin-3-yl]amine;
 - (6-benzimidazol-5-ylpyridazin-3-yl)[(4-fluorophenyl)cyclobutyl]amine;
 - [(4-fluorophenyl)cyclobutyl](6-pyrazol-4-ylpyridazin-3-yl)amine;
 - 3-(6-[(1,3-thiazol-2-yl)cyclobutyl]amino)pyridazin-3-yl}benzamide;
 - 4-fluoro-3-(6-(((3-fluoro(2-pyridyl))cyclobutyl)amino)pyridazin-3-yl)benzamide;
 - 3-(6-(((4-methoxy-2-pyridyl)cyclobutyl)amino)pyridazin-3-yl)benzamide;
 - [6-(3-fluoro(4-pyridyl))pyridazin-3-yl][(4-fluorophenyl)cyclobutyl]amine;
 - [(4-fluorophenyl)cyclobutyl](6-(4-pyridyl)pyridazin-3-yl)amine;
 - 4-(6-(((4-fluorophenyl)cyclobutyl)amino)pyridazin-3-yl)pyridine-2-carbonitrile;
 - 4-(6-(((4-fluorophenyl)cyclobutyl)amino)pyridazin-3-yl)pyridine-2-carboxamide;
 - [4-(6-(((4-fluorophenyl)cyclobutyl)amino)pyridazin-3-yl)phenyl](methylsulfonyl)amine;
 - [(4-fluorophenyl)cyclobutyl][6-(2-methoxy(3-pyridyl))pyridazin-3-yl]amine;
 - [(4-fluorophenyl)cyclobutyl]{6-[2-(2,2,2-trifluoroethoxy)(3-pyridyl)]pyridazin-3-yl}amine;
 - 3-(6-(((4-chlorophenyl)cyclobutyl)amino)pyridazin-3-yl)benzamide;
 - 3-(6-(((4-cyanophenyl)cyclobutyl)amino)pyridazin-3-yl)benzamide;
 - 3-(6-(((3-chloro(2-pyridyl))cyclobutyl)amino)pyridazin-3-yl)-4-fluorobenzamide;

[3-(6-((4-fluorophenyl)cyclobutyl)amino)pyridazin-3-yl)phenyl](methylsulfonyl)amine;
 3-(6-((4-carbamoylphenyl)cyclobutyl)amino)pyridazin-3-yl)benzamide;
 [(4-fluorophenyl)cyclobutyl][6-(2-methyl(4-pyridyl))pyridazin-3-yl]amine;
 [(4-fluorophenyl)cyclobutyl][6-(2-methoxy(4-pyridyl))pyridazin-3-yl]amine;
 3-(6-((6-methoxy-2-pyridyl)cyclobutyl)amino)pyridazin-3-yl)benzamide;
 4-fluoro-3-(6-((6-methoxy(2-pyridyl))cyclobutyl)amino)pyridazin-3-yl)benzamide;
 [3-(6-((6-methoxy(2-pyridyl))cyclobutyl)amino)pyridazin-3-yl)phenyl](methylsulfonyl)amine;
 [3-(6-((3-fluoro(2-pyridyl))cyclobutyl)amino)pyridazin-3-yl)phenyl](methylsulfonyl)amine;
 amino-N-[4-(6-((3-fluoro(2-pyridyl))cyclobutyl)amino)pyridazin-3-yl)phenyl]amide;
 (6-(1H-indazol-6-yl)pyridazin-3-yl)[(3-fluoro(2-pyridyl))cyclobutyl]amine;
 (6-benzimidazol-6-ylpyridazin-3-yl)[(3-fluoro(2-pyridyl))cyclobutyl]amine;
 3-[6-((6-(difluoromethoxy)-2-pyridyl)cyclobutyl)amino)pyridazin-3-yl]benzamide;
 3-[6-((6-(difluoromethoxy)(2-pyridyl))cyclobutyl)amino)pyridazin-3-yl]-4-fluorobenzamide;
 {3-[6-((6-(difluoromethoxy)(2-pyridyl))cyclobutyl)amino)pyridazin-3-yl]phenyl}(methylsulfonyl)amine;
 4-fluoro-3-(6-((4-fluorophenyl)cyclobutyl)amino)pyridazin-3-yl)benzoic acid;
 [4-fluoro-3-(6-((4-fluorophenyl)cyclobutyl)amino)pyridazin-3-yl)phenyl]-N-(2-hydroxy-2-methylpropyl)carboxamide;
 3-(6-((3-bromo(2-pyridyl))cyclobutyl)amino)pyridazin-3-yl)-4-fluorobenzamide;
 4-chloro-3-(6-((3-fluoro(2-pyridyl))cyclobutyl)amino)pyridazin-3-yl)benzamide;
 [4-(6-((4-fluorophenyl)cyclobutyl)amino)pyridazin-3-yl](2-pyridyl)-N-methylcarboxamide;
 (6-(1H-indazol-5-yl)pyridazin-3-yl)[(3-fluoro(2-pyridyl))cyclobutyl]amine;
 [6-(6-fluoro(1H-indazol-5-yl))pyridazin-3-yl][3-fluoro(2-pyridyl))cyclobutyl]amine;
 amino-N-[4-fluoro-3-(6-((3-fluoro(2-pyridyl))cyclobutyl)amino)pyridazin-3-yl)phenyl]amide;
 amino[4-fluoro-3-(6-((3-fluoro(2-pyridyl))cyclobutyl)amino)pyridazin-3-

yl)phenyl]sulfonamide;
 amino[3-fluoro-4-(6-[[[3-fluoro(2-pyridyl))cyclobutyl]amino}pyridazin-3-yl)phenyl]sulfonamide;
 amino-N-[3-fluoro-4-(6-[[[3-fluoro(2-pyridyl))cyclobutyl]amino}pyridazin-3-yl)phenyl]amide;
 3-(6-[[[4-cyano(2-pyridyl))cyclobutyl]amino}pyridazin-3-yl)-4-fluorobenzamide;
 2-([6-(3-carbamoyl-6-fluorophenyl)pyridazin-3-yl]amino)cyclobutyl)pyridine-4-carboxamide;
 3-(6-[[[5-cyano(2-pyridyl))cyclobutyl]amino}pyridazin-3-yl)-4-fluorobenzamide;
 3-(6-[[[6-cyano(2-pyridyl))cyclobutyl]amino}pyridazin-3-yl)-4-fluorobenzamide;
 6-([6-(3-carbamoyl-6-fluorophenyl)pyridazin-3-yl]amino)cyclobutyl)pyridine-2-carboxamide;
 4-fluoro-3-(6-[[[3-hydroxy(2-pyridyl))cyclobutyl]amino}pyridazin-3-yl)benzamide;
 4-fluoro-3-(6-[[[3-methoxy(2-pyridyl))cyclobutyl]amino}pyridazin-3-yl)benzamide;
 3-[6-([3-(difluoromethoxy)(2-pyridyl)]cyclobutyl)amino]pyridazin-3-yl]-4-fluorobenzamide;
 3-[6-([3-(difluoromethoxy)-2-pyridyl]cyclobutyl)amino]pyridazin-3-yl]benzamide;
 {3-[6-([3-(difluoromethoxy)(2-pyridyl)]cyclobutyl)amino]pyridazin-3-yl]phenyl}(methylsulfonyl)amine;
 4-fluoro-3-(6-[[[5-methoxy(2-pyridyl))cyclobutyl]amino}pyridazin-3-yl)benzamide;
 3-[6-([5-(difluoromethoxy)(2-pyridyl)]cyclobutyl)amino]pyridazin-3-yl]-4-fluorobenzamide;
 4-fluoro-3-(6-[[[5-hydroxy(2-pyridyl))cyclobutyl]amino}pyridazin-3-yl)benzamide;
 4-fluoro-3-(6-[[[3-fluoro(2-pyridyl))cyclobutyl]amino}pyridazin-3-yl)benzenecarbonitrile;
 [[3-fluoro(2-pyridyl))cyclobutyl](6-phenylpyridazin-3-yl)amine;
 (6-cyclohexylpyridazin-3-yl)[[3-fluoro(2-pyridyl))cyclobutyl]amine;
 (6-cyclohex-1-enylpyridazin-3-yl)[[3-fluoro(2-pyridyl))cyclobutyl]amine;
 4-fluoro-3-(6-[[[3-fluoro(2-pyridyl))cyclopentyl]amino}pyridazin-3-yl)benzamide;
 2-(6-[[[3-fluoro(2-pyridyl))cyclobutyl]amino}pyridazin-3-yl)-1,3-thiazole-5-carboxamide;

5-(6-(((3-fluoro(2-pyridyl))cyclobutyl)amino)pyridazin-3-yl)-2-hydroxybenzamide;
 [6-(3-amino(1H-indazol-5-yl))pyridazin-3-yl]((3-fluoro(2-pyridyl))cyclobutyl)amine;
 2-(6-(((4-fluorophenyl)cyclobutyl)amino)pyridazin-3-yl)-1,3-thiazole-5-carboxamide;
 5-(6-(((3-fluoro-2-pyridyl)cyclobutyl)amino)pyridazin-3-yl)thiophene-2-carboxamide;
 5-(6-(((4-fluorophenyl)cyclobutyl)amino)pyridazin-3-yl)thiophene-2-carboxamide;
 and
 5-(6-(((3-fluoro-2-pyridyl)cyclobutyl)amino)pyridazin-3-yl)thiophene-2-carboxylic acid;
 or a pharmaceutically acceptable salt thereof.

47. The compound of claim 1, wherein the compound is selected from:

3-[6-(((4-fluorophenyl)cyclopropyl)methyl)amino)pyridazin-3-yl]benzamide;
 5-[6-(((4-fluorophenyl)cyclopropyl)methyl)amino)pyridazin-3-yl]pyridine-3-carboxamide
 5-[6-(((4-fluorophenyl)cyclopropyl)methyl)amino)pyridazin-3-yl]pyridine-3-carbonitrile;
 3-[6-(((2-chlorophenyl)cyclopropyl)methyl)amino)pyridazin-3-yl]benzamide;
 5-[6-(((4-fluorophenyl)cyclopropyl)methyl)amino)pyridazin-3-yl]-3-hydrobenzimidazol-2-one;
 [6-(3-amino(1H-indazol-5-yl))pyridazin-3-yl](((4-fluorophenyl)cyclopropyl)methyl)amine;
 [6-(3-amino(1H-indazol-5-yl))pyridazin-3-yl](((2-fluorophenyl)cyclopropyl)methyl)amine;
 [6-(3-amino(1H-indazol-5-yl))pyridazin-3-yl](((2-fluorophenyl)cyclobutyl)methyl)amine;
 [6-(3-amino(1H-indazol-5-yl))pyridazin-3-yl](((4-fluorophenyl)cyclobutyl)methyl)amine;
 [6-(3-amino(1H-indazol-5-yl))pyridazin-3-yl](((2-fluorophenyl)cyclopentyl)methyl)amine;
 [6-(3-amino(1H-indazol-5-yl))pyridazin-3-yl](((4-fluorophenyl)cyclohexyl)methyl)amine;

methyl}amine;
 [6-(3-amino(1H-indazol-5-yl))pyridazin-3-yl][(phenylcyclopropyl)methyl]amine;
 [6-(3-amino(1H-indazol-5-yl))pyridazin-3-yl][(phenylcyclobutyl)methyl]amine;
 [6-(3-amino(1H-indazol-5-yl))pyridazin-3-yl][(2,2-dimethyl-1-phenylcyclopropyl)methyl]amine;
 [6-(3-amino(1H-indazol-5-yl))pyridazin-3-yl][(4-fluorophenyl)cyclopentyl]methyl}amine;
 3-[6-({[(3-fluoro-2-pyridyl)cyclobutyl]methyl}amino)pyridazin-3-yl]benzamide;
 {[(4-fluorophenyl)cyclobutyl]methyl}[6-(2-methoxypyrimidin-5-yl)pyridazin-3-yl]amine;
 5-[6-({[(4-fluorophenyl)cyclobutyl]methyl}amino)pyridazin-3-yl]-3-hydropyrimidin-2-one;
 [6-(3-amino(1H-indazol-5-yl))pyridazin-3-yl][(5-fluoro(2-pyridyl))cyclobutyl]methyl}amine;
 3-[6-({[(5-fluoro-2-pyridyl)cyclobutyl]methyl}amino)pyridazin-3-yl]benzamide;
 4-[6-({[(3-fluoro-2-pyridyl)cyclobutyl]methyl}amino)pyridazin-3-yl]benzamide;
 (6-(1H-indazol-5-yl)pyridazin-3-yl){[(3-fluoro(2-pyridyl))cyclobutyl]methyl}amine;
 (6-(1H-indazol-6-yl)pyridazin-3-yl){[(3-fluoro(2-pyridyl))cyclobutyl]methyl}amine;
 (6-(1H-indazol-6-yl)pyridazin-3-yl){[(6-methoxy(2-pyridyl))cyclobutyl]methyl}amine;
 (6-(1H-indazol-5-yl)pyridazin-3-yl){[(6-methoxy(2-pyridyl))cyclobutyl]methyl}amine;
 4-fluoro-3-[6-({[(6-methoxy(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]benzamide;
 4-fluoro-3-(6-({[(2-pyridyl)cyclobutyl]methyl}amino)pyridazin-3-yl)benzamide;
 (6-(1H-indazol-5-yl)pyridazin-3-yl)[(2-pyridyl)cyclobutyl]methyl}amine;
 (6-(1H-indazol-6-yl)pyridazin-3-yl)[(2-pyridyl)cyclobutyl]methyl}amine;
 2-fluoro-3-[6-({[(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]benzamide;
 3-fluoro-4-[6-({[(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]benzamide;

6-({[(6-(1H-indazol-5-yl)pyridazin-3-yl)amino]methyl}cyclobutyl)pyridin-2-ol;
 6-({[(6-(1H-indazol-6-yl)pyridazin-3-yl)amino]methyl}cyclobutyl)pyridin-2-ol;
 4-fluoro-3-[6-({[(6-hydroxy(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]benzamide;
 2-({[(6-(1H-indazol-5-yl)pyridazin-3-yl)amino]methyl}cyclobutyl)pyridin-4-ol;
 4-fluoro-3-[6-({[(4-methoxy(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]benzamide;
 (6-(1H-indazol-5-yl)pyridazin-3-yl){[(4-methoxy(2-pyridyl))cyclobutyl]methyl}amine;
 (6-(1H-indazol-6-yl)pyridazin-3-yl){[(4-methoxy(2-pyridyl))cyclobutyl]methyl}amine;
 2-({[(6-(1H-indazol-6-yl)pyridazin-3-yl)amino]methyl}cyclobutyl)pyridin-4-ol;
 4-fluoro-3-[6-({[(4-hydroxy(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]benzamide;
 5-[6-({[(3-fluoro-2-pyridyl)cyclobutyl]methyl}amino)pyridazin-3-yl]-3-hydrobenzimidazol-2-one;
 {[(3-fluoro(2-pyridyl))cyclobutyl]methyl}{6-pyrazol-4-ylpyridazin-3-yl}amine;
 {[(3-fluoro(2-pyridyl))cyclobutyl]methyl}[6-(1-methylpyrazol-4-yl)pyridazin-3-yl]amine;
 3-[6-({[(3-fluoro-2-pyridyl)cyclobutyl]methyl}amino)pyridazin-3-yl]benzenesulfonamide;
 {4-[6-({[(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]phenyl}(methylsulfonyl)amine;
 {3-[6-({[(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]phenyl}(methylsulfonyl)amine;
 4-fluoro-3-[6-({[(3-methoxy(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]benzamide;
 (6-(1H-indazol-5-yl)pyridazin-3-yl){[(3-methoxy(2-pyridyl))cyclobutyl]methyl}amine;
 (6-(1H-indazol-6-yl)pyridazin-3-yl){[(3-methoxy(2-pyridyl))cyclobutyl]methyl}amine;

4-fluoro-3-[6-({[(5-methoxy(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]benzamide;

(6-(1H-indazol-5-yl)pyridazin-3-yl){[(5-methoxy(2-pyridyl))cyclobutyl]methyl}amine;

(6-(1H-indazol-6-yl)pyridazin-3-yl){[(5-methoxy(2-pyridyl))cyclobutyl]methyl}amine;

3-{{[6-(1H-indazol-6-yl)pyridazin-3-yl]amino}methyl}-3-(2-pyridyl)cyclobutan-1-ol;

3-{{[6-(1H-indazol-6-yl)pyridazin-3-yl]amino}methyl}-3-(2-pyridyl)cyclobutan-1-ol;

3-[6-({[(4-fluorophenyl)cyclobutyl]methyl}amino)pyridazin-3-yl]benzamide;

3-[6-({[(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]-4-methylbenzamide;

6-({[(6-(1H-indazol-5-yl)pyridazin-3-yl)amino]methyl}cyclobutyl) pyridine-3-carbonitrile;

6-[6-({[(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]-3,3-dimethylindolin-2-one;

3-[6-({[(4-cyano-2-pyridyl)cyclobutyl]methyl}amino)pyridazin-3-yl]benzamide;

2-{{[6-(3-carbamoylphenyl)pyridazin-3-yl]amino}methyl}cyclobutyl]pyridine-4-carboxamide;

3-[6-({[(4-cyano(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]-4-fluorobenzamide;

2-{{[6-(3-carbamoyl-6-fluorophenyl)pyridazin-3-yl]amino}methyl}cyclobutyl]pyridine-4-carboxamide;

2-{{[6-(1H-indazol-5-yl)pyridazin-3-yl]amino}methyl}cyclobutyl]pyridine-4-carbonitrile;

2-{{[6-(1H-indazol-5-yl)pyridazin-3-yl]amino}methyl}cyclobutyl]pyridine-4-carboxamide;

3-[6-({[(6-cyano-2-pyridyl)cyclobutyl]methyl}amino)pyridazin-3-yl]benzamide;

6-{{[6-(3-carbamoylphenyl)pyridazin-3-yl]amino}methyl}cyclobutyl]pyridine-2-carboxamide;

6-{{[6-(1H-indazol-5-yl)pyridazin-3-yl]amino}methyl}cyclobutyl]pyridine-2-carbonitrile;

6-({[6-(1H-indazol-5-yl)pyridazin-3-yl]amino}methyl)cyclobutyl)pyridine-2-carboxamide;

(6-(1H-indazol-6-yl)pyridazin-3-yl){[(4-fluorophenyl)cyclobutyl]methyl}amine;

(6-(1H-indazol-5-yl)pyridazin-3-yl){[(4-fluorophenyl)cyclobutyl]methyl}amine;

4-fluoro-3-[6-({[(1-methyl-6-oxo(2-hydropyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]benzamide;

3-(6-({[(2-pyridyl)cyclobutyl]methyl}amino)pyridazin-3-yl)benzamide;

methyl 3-(3-fluoro(2-pyridyl))-3-({[6-(1H-indazol-5-yl)pyridazin-3-yl]amino}methyl)azetidinecarboxylate;

methyl 3-({[6-(3-carbamoylphenyl)pyridazin-3-yl]amino}methyl)-3-(3-fluoro(2-pyridyl))azetidinecarboxylate;

{[(3-fluoro(2-pyridyl))cyclobutyl]methyl}{6-[3-(methylamino)(1H-indazol-5-yl)]pyridazin-3-yl}amine;

2-fluoro-5-[6-({[(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]benzoic acid;

{2-fluoro-5-[6-({[(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]phenyl}-N-methylcarboxamide;

N-{5-[6-({[(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]-1H-indazol-3-yl}acetamide;

2-amino-N-{5-[6-({[(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl](1H-indazol-3-yl)}acetamide;

{5-[6-({[(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl](1H-indazol-3-yl)}(methylsulfonyl)amine;

3-amino-5-[6-({[(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]-1H-indazolecarboxamide;

[6-(3-aminophenyl)pyridazin-3-yl]{[(3-fluoro(2-pyridyl))cyclobutyl]methyl}amine;

[6-(4-aminophenyl)pyridazin-3-yl]{[(3-fluoro(2-pyridyl))cyclobutyl]methyl}amine;

(6-{3-[(2-aminoethyl)amino](1H-indazol-5-yl)}pyridazin-3-yl){[(3-fluoro(2-pyridyl))cyclobutyl]methyl}amine;

amino{3-[6-({[(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]phenyl}carboxamidine;

amino{4-[6-({[(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]phenyl}carboxamidine;
 3-(6-({[(pyrazin-2-ylcyclobutyl)methyl]amino}pyridazin-3-yl)benzamide;
 (6-(1H-indazol-6-yl)pyridazin-3-yl)[(pyrazin-2-ylcyclobutyl)methyl]amine;
 (6-(1H-indazol-5-yl)pyridazin-3-yl)[(pyrazin-2-ylcyclobutyl)methyl]amine;
 amino-N-{3-[6-({[(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]phenyl}amide;
 5-[6-({[(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]benzene-1,3-dicarboxylic acid;
 5-[6-({[(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]benzene-1,3-dicarboxamide;
 3-[6-({[(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]benzenecarboxamidine;
 3-[6-({[1-acetyl-3-(3-fluoro(2-pyridyl))azetidin-3-yl]methyl}amino)pyridazin-3-yl]benzamide;
 1-acetyl-3-(3-fluoro(2-pyridyl))-3-({[(6-(1H-indazol-5-yl)pyridazin-3-yl)amino]methyl}azetidine;
 (6-(1H-indazol-5-yl)pyridazin-3-yl){[3-(3-fluoro(2-pyridyl))azetidin-3-yl]methyl}amine;
 3-[6-({[3-(3-fluoro(2-pyridyl))azetidin-3-yl]methyl}amino)pyridazin-3-yl]benzamide;
 3-(3-fluoro(2-pyridyl))-3-({[(6-(1H-indazol-5-yl)pyridazin-3-yl)amino]methyl}-1-(methylsulfonyl)azetidine;
 3-[6-({[3-(3-fluoro(2-pyridyl))-1-(methylsulfonyl)azetidin-3-yl]methyl}amino)pyridazin-3-yl]benzamide;
 (6-(1H-indazol-5-yl)pyridazin-3-yl){[3-(3-fluoro(2-pyridyl))azetidin-3-yl]methyl}(methylsulfonyl)amine;
 amino{5-[6-({[(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl](1H-indazol-3-yl)}carboxamidine;
 3-[6-({[3-(4-fluorophenyl)oxetan-3-yl]methyl}amino)pyridazin-3-yl]benzamide;
 {6-[3-(ethylamino)(1H-indazol-5-yl)]pyridazin-3-yl}{[(3-fluoro(2-pyridyl))cyclobutyl]methyl}amine;

N-{4-[6-({[(3-fluoro-2-pyridyl)cyclobutyl]methyl}amino)pyridazin-3-yl]imidazol-2-yl}acetamide;
 [6-(2-aminoimidazol-4-yl)pyridazin-3-yl]({[(3-fluoro(2-pyridyl))cyclobutyl]methyl}amine;
 {[(3-fluoro(2-pyridyl))cyclobutyl]methyl}(6-{3-[(methylethyl)amino](1H-indazol-5-yl)})pyridazin-3-yl)amine;
 {6-[3-(ethylamino)(1H-indazol-5-yl)]pyridazin-3-yl}[(2-pyridyl)cyclobutyl]methyl}amine;
 {[(3-fluoro(2-pyridyl))cyclobutyl]methyl}{6-[2-(trifluoromethoxy)phenyl]pyridazin-3-yl}amine;
 {2-[6-({[(3-fluoro-2-pyridyl)cyclobutyl]methyl}amino)pyridazin-3-yl]phenyl}methan-1-ol;
 [6-(5-amino(2-pyridyl))pyridazin-3-yl]({[(3-fluoro(2-pyridyl))cyclobutyl]methyl}amine;
 [6-(6-amino(3-pyridyl))pyridazin-3-yl]({[(3-fluoro(2-pyridyl))cyclobutyl]methyl}amine;
 [6-(4-amino-3-fluorophenyl)pyridazin-3-yl]({[(3-fluoro(2-pyridyl))cyclobutyl]methyl}amine;
 (6-benzotriazol-6-yl)pyridazin-3-yl]({[(3-fluoro(2-pyridyl))cyclobutyl]methyl}amine;
 4-[6-({[(3-fluoro-2-pyridyl)cyclobutyl]methyl}amino)pyridazin-3-yl]indolin-2-one;
 (6-benzimidazol-5-yl)pyridazin-3-yl]({[(3-fluoro(2-pyridyl))cyclobutyl]methyl}amine;
 N-{3-[6-({[(3-fluoro-2-pyridyl)cyclobutyl]methyl}amino)pyridazin-3-yl]phenyl}acetamide;
 {[(3-fluoro(2-pyridyl))cyclobutyl]methyl}[6-(4-morpholin-4-ylphenyl)pyridazin-3-yl]amine;
 {[(3-fluoro(2-pyridyl))cyclobutyl]methyl}[6-(2-methylpyrimidin-5-yl)pyridazin-3-yl]amine;
 {[(3-fluoro(2-pyridyl))cyclobutyl]methyl}(6-pyrimidin-2-yl)pyridazin-3-yl)amine;
 {[(3-fluoro(2-pyridyl))cyclobutyl]methyl}(6-pyrazin-2-yl)pyridazin-3-yl)amine;
 {[(3-fluoro(2-pyridyl))cyclobutyl]methyl}(6-phenylpyridazin-3-yl)amine;
 N-{4-[6-({[(3-fluoro-2-pyridyl)cyclobutyl]methyl}amino)pyridazin-3-

yl]phenyl}acetamide;

[6-(2-aminopyrimidin-5-yl)pyridazin-3-yl][[(3-fluoro(2-pyridyl))cyclobutyl]methyl]amine;

N-{5-[6-([(3-fluoro(2-pyridyl))cyclobutyl]methyl)amino]pyridazin-3-yl}pyrimidin-2-yl}acetamide;

N-{5-[6-([(3-fluoro(2-pyridyl))cyclobutyl]methyl)amino]pyridazin-3-yl}pyrimidin-2-yl}methoxycarboxamide;

[[[(3-fluoro(2-pyridyl))cyclobutyl]methyl][6-(5-methoxy(2-pyridyl))pyridazin-3-yl]amine;

6-[6-([(3-fluoro(2-pyridyl))cyclobutyl]methyl)amino]pyridazin-3-yl]pyridin-3-ol;

{5-[6-([(3-fluoro(2-pyridyl))cyclobutyl]methyl)amino]pyridazin-3-yl}pyrimidin-2-yl}(methylsulfonyl)amine;

[6-(2,3-difluorophenyl)pyridazin-3-yl][[(3-fluoro(2-pyridyl))cyclobutyl]methyl]amine;

[[[(3-fluoro(2-pyridyl))cyclobutyl]methyl][6-(3-fluoro(2-pyridyl))pyridazin-3-yl]amine;

5-[6-([(3-fluoro(2-pyridyl))cyclobutyl]methyl)amino]pyridazin-3-yl]indolin-2-one;

5-[6-([(3-fluoro(2-pyridyl))cyclobutyl]methyl)amino]pyridazin-3-yl]-1H-2-hydroindazol-3-one;

N-{3-[6-([(3-fluoro(2-pyridyl))cyclobutyl]methyl)amino]pyridazin-3-yl}phenyl}(methylamino)carboxamide;

N-{4-[6-([(3-fluoro(2-pyridyl))cyclobutyl]methyl)amino]pyridazin-3-yl}phenyl}(methylamino)carboxamide;

tert-butyl 4-{5-[6-([(3-fluoro(2-pyridyl))cyclobutyl]methyl)amino]pyridazin-3-yl}pyrimidin-2-yl}piperazinecarboxylate;

2-({5-[6-([(3-fluoro(2-pyridyl))cyclobutyl]methyl)amino]pyridazin-3-yl}pyrimidin-2-yl)amino)acetamide;

{6-[2-(aminomethyl)-5-fluorophenyl]pyridazin-3-yl}[[[(3-fluoro(2-pyridyl))cyclobutyl]methyl]amine;

{6-[2-(aminomethyl)phenyl]pyridazin-3-yl}[[[(3-fluoro(2-pyridyl))cyclobutyl]methyl]amine;

{6-[4-(aminomethyl)phenyl]pyridazin-3-yl}[[[(3-fluoro(2-pyridyl))cyclobutyl]

methyl}amine;

{[(3-fluoro(2-pyridyl))cyclobutyl]methyl}[6-(2-piperazinylpyrimidin-5-yl)pyridazin-3-yl]amine;

[6-(3-chloro(2-pyridyl))pyridazin-3-yl]{[(3-fluoro(2-pyridyl))cyclobutyl]methyl}amine;

{[(3-fluoro(2-pyridyl))cyclobutyl]methyl}[6-(2-methyl(3-pyridyl))pyridazin-3-yl]amine;

3-[6-({[(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]pyridine-2-carbonitrile;

3-[6-({[(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]pyridine-2-carboxamide;

methyl 3-[6-({[(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]pyridine-2-carboxylate;

2-{3-[6-({[(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]-2-pyridyl}propan-2-ol;

amino-N-{4-[6-({[(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]phenyl}amide;

2-amino-2-{3-[6-({[(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]phenyl}acetamide;

{[(3-fluoro(2-pyridyl))cyclobutyl]methyl}(6-pyridazin-4-ylpyridazin-3-yl)amine;

3-[6-({[3,3-difluoro-1-(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]benzamide;

(6-(1H-indazol-5-yl)pyridazin-3-yl){[3,3-difluoro-1-(3-fluoro(2-pyridyl))cyclobutyl]methyl}amine;

5-[6-({[(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]-2-(methylethyl)-1H-2-hydroindazol-3-one;

5-[6-({[(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]-1-(methylethyl)-1H-2-hydroindazol-3-one;

{[(3-fluoro(2-pyridyl))cyclobutyl]methyl}(6-(2-pyridyl)pyridazin-3-yl)amine;

{3-[6-({[(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]-2-pyridyl}methan-1-ol;

amino-N-{5-[6-({[(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl](2-pyridyl)}amide;

1-amino-1-[4-[6-({[(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]phenyl]-2-methylpropan-2-ol;

amino-N-{5-[6-({[(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]pyrimidin-2-yl}amide;

(6-(1H-indazol-6-yl)pyridazin-3-yl)[{3,3-difluoro-1-(3-fluoro(2-pyridyl))cyclobutyl]methyl}amine;

[6-(2-amino(3-pyridyl))pyridazin-3-yl][{(3-fluoro(2-pyridyl))cyclobutyl]methyl}amine;

[6-(6-amino-5-fluoro(3-pyridyl))pyridazin-3-yl][{(3-fluoro(2-pyridyl))cyclobutyl]methyl}amine;

6-[6-({[(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]indolin-2-one;

amino-N-{4-[6-({[(3,3-difluoro-1-(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]phenyl}amide;

(6-cyclohex-1-enylpyridazin-3-yl)[{(3-fluoro(2-pyridyl))cyclobutyl]methyl}amine;

(6-cyclohexylpyridazin-3-yl)[{(3-fluoro(2-pyridyl))cyclobutyl]methyl}amine;

(2S,1R)-2-[6-({[(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]cyclopropanecarboxamide;

amino-N-{4-[6-({[(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]cyclohexyl}amide;

amino-N-{4-[6-({[(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]cyclohexyl}amide;

amino-N-{3-[6-({[(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]cyclobutyl}amide;

amino-N-{3-[6-({[(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]cyclobutyl}amide;

amino-N-{4-[6-({[(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]cyclohex-3-enyl}amide;

phenylmethyl 3-[6-({[(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]azetidinecarboxylate;

(6-azetidin-3-ylpyridazin-3-yl){[(3-fluoro(2-pyridyl))cyclobutyl]methyl}amine;
 methyl 3-[6-({[(3-fluoro-2-pyridyl)cyclobutyl]methyl}amino)pyridazin-3-yl]azetidinecarboxylate;
 3-[6-({[(3-fluoro-2-pyridyl)cyclobutyl]methyl}amino)pyridazin-3-yl]azetidinecarboxamide;
 1-acetyl-3-[6-({[(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]azetidine;
 ethyl 5-[6-({[(3-fluoro-2-pyridyl)cyclobutyl]methyl}amino)pyridazin-3-yl]isoxazole-3-carboxylate;
 5-[6-({[(3-fluoro-2-pyridyl)cyclobutyl]methyl}amino)pyridazin-3-yl]isoxazole-3-carboxylic acid;
 5-[6-({[(3-fluoro-2-pyridyl)cyclobutyl]methyl}amino)pyridazin-3-yl]isoxazole-3-carboxamide;
 amino-N-{5-[6-({[(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]}(1H-indazol-3-yl)}amide;
 4-[6-({[(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]-1-methylimidazole-2-carboxamide;
 4-[6-({[(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]-2-methoxybenzamide;
 4-[6-({[(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]-2-hydroxybenzamide;
 5-[6-({[(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]-2-methoxybenzamide;
 5-[6-({[(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]-2-hydroxybenzamide;
 4-[6-({[(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]-2-methoxybenzoic acid;
 5-[6-({[(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]-2-methoxybenzoic acid;
 5-[6-({[(3-fluoro-2-pyridyl)cyclobutyl]methyl}amino)pyridazin-3-yl]-1,3-oxazole-2-carboxamide;

4-[6-({[(3-fluoro-2-pyridyl)cyclobutyl]methyl}amino)pyridazin-3-yl]imidazole-2-carboxamide;

3-[6-({[(3-fluoro-2-pyridyl)cyclobutyl]methyl}amino)pyridazin-3-yl]isoxazole-5-carboxamide;

3-[6-({[(3-fluoro-2-pyridyl)cyclobutyl]methyl}amino)pyridazin-3-yl]pyrazole-5-carboxamide;

3-[6-({[(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]-1-methylpyrazole-5-carboxamide;

5-[6-({[(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]-1-methylpyrazole-3-carboxamide;

2-[6-({[(3-fluoro-2-pyridyl)cyclobutyl]methyl}amino)pyridazin-3-yl]-1,3-oxazole-5-carboxamide;

2-[6-({[(3-fluoro-2-pyridyl)cyclobutyl]methyl}amino)pyridazin-3-yl]-1,3-thiazole-4-carboxamide;

5-[6-({[(3-fluoro-2-pyridyl)cyclobutyl]methyl}amino)pyridazin-3-yl]-1,2,4-oxadiazole-3-carboxamide;

2-[6-({[(3-fluoro-2-pyridyl)cyclobutyl]methyl}amino)pyridazin-3-yl]-2-imidazoline-5-carboxamide;

methyl 2-[6-({[(3-fluoro-2-pyridyl)cyclobutyl]methyl}amino)pyridazin-3-yl]-2-imidazoline-5-carboxylate;

2-[6-({[(3-fluoro-2-pyridyl)cyclobutyl]methyl}amino)pyridazin-3-yl]-2-imidazoline-5-carboxylic acid;

2-[6-({[(3-fluoro-2-pyridyl)cyclobutyl]methyl}amino)pyridazin-3-yl]-1,3-oxazole-4-carboxamide;

2-[6-({[(3-fluoro-2-pyridyl)cyclobutyl]methyl}amino)pyridazin-3-yl]-1,3-thiazole-5-carboxamide;

methyl 2-[6-({[(3-fluoro-2-pyridyl)cyclobutyl]methyl}amino)pyridazin-3-yl]-1,3-oxazole-4-carboxylate;

methyl 2-[6-({[(3-fluoro-2-pyridyl)cyclobutyl]methyl}amino)pyridazin-3-yl]-1,3-thiazole-4-carboxylate;

methyl 2-[6-({[(3-fluoro-2-pyridyl)cyclobutyl]methyl}amino)pyridazin-3-yl]-1,3-

oxazole-5-carboxylate;

2-[6-({[(3-fluoro-2-pyridyl)cyclobutyl]methyl}amino)pyridazin-3-yl]imidazole-4-carboxamide;

methyl 2-[6-({[(3-fluoro-2-pyridyl)cyclobutyl]methyl}amino)pyridazin-3-yl]imidazole-4-carboxylate;

4-[6-({[(3-fluoro-2-pyridyl)cyclobutyl]methyl}amino)pyridazin-3-yl]-1,3-thiazole-2-carboxamide;

5-[6-({[(3-fluoro-2-pyridyl)cyclobutyl]methyl}amino)pyridazin-3-yl]-1,3-thiazole-2-carboxamide;

3-[6-({[(3-fluoro-2-pyridyl)cyclobutyl]methyl}amino)pyridazin-3-yl]-1,2,4-oxadiazole-5-carboxamide;

5-[6-({[(3-fluoro-2-pyridyl)cyclobutyl]methyl}amino)pyridazin-3-yl]-4H-1,2,4-triazole-3-carboxamide;

methyl 2-[6-({[(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]-1-methylimidazole-4-carboxylate;

2-[6-({[(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]-1-methylimidazole-4-carboxamide;

2-[6-({[(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]-1-methylimidazole-5-carboxamide;

5-[6-({[(3-fluoro-2-pyridyl)cyclobutyl]methyl}amino)pyridazin-3-yl]thiophene-2-carboxamide;

5-[6-({[(3-fluoro-2-pyridyl)cyclobutyl]methyl}amino)pyridazin-3-yl]-1,3,4-thiadiazole-2-carboxamide;

{[(3-fluoro(2-pyridyl))cyclobutyl]methyl}{6-(1,3-thiazol-2-yl)pyridazin-3-yl}amine;

(6-(2H-1,2,3,4-tetraazol-5-yl)pyridazin-3-yl){[(3-fluoro(2-pyridyl))cyclobutyl]methyl}amine;

5-[6-({[(3-fluoro-2-pyridyl)cyclobutyl]methyl}amino)pyridazin-3-yl]-1,3,4-oxadiazole-2-carboxamide;

2-[6-({[(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]-4-methyl-1,3-thiazole-5-carboxamide;

2-[6-({[(3-fluoro-2-pyridyl)cyclobutyl]methyl}amino)pyridazin-3-yl]-1,3-thiazole-5-

carboxylic acid;

2-[6-({[(3-fluoro-2-pyridyl)cyclobutyl]methyl}amino)pyridazin-3-yl]-1,3-thiazole-5-carbonitrile;

5-[6-({[(3-fluoro-2-pyridyl)cyclobutyl]methyl}amino)pyridazin-3-yl]thiophene-2-carboxylic acid;

2-[6-({[(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]-4-hydroxy-1,3-thiazole-5-carboxamide;

5-[6-({[(3-fluoro-2-pyridyl)cyclobutyl]methyl}amino)pyridazin-3-yl]-3-pyrazolino[3,4-d]1,3-thiazol-3-one;

{2-[6-({[(3-fluoro-2-pyridyl)cyclobutyl]methyl}amino)pyridazin-3-yl]-1,3-thiazol-5-yl}methan-1-ol;

[6-(5-(2H-1,2,3,4-tetraazol-5-yl)(1,3-thiazol-2-yl))pyridazin-3-yl]{[(3-fluoro(2-pyridyl))cyclobutyl]methyl}amine;

5-{2-[6-({[(3-fluoro-2-pyridyl)cyclobutyl]methyl}amino)pyridazin-3-yl]-1,3-thiazol-5-yl}-1,3,4-oxadiazolin-2-one;

ethyl 3-[6-({[(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]-5-hydroxypyrazole-4-carboxylate;

3-[6-({[(3-fluoro-2-pyridyl)cyclobutyl]methyl}amino)pyridazin-3-yl]-3-pyrazolin-5-one;

3-{2-[6-({[(3-fluoro-2-pyridyl)cyclobutyl]methyl}amino)pyridazin-3-yl]-1,3-thiazol-5-yl}-1,2,4-triazolin-5-one;

3-{2-[6-({[(3-fluoro-2-pyridyl)cyclobutyl]methyl}amino)pyridazin-3-yl]-1,3-thiazol-5-yl}-1,2,4-oxadiazolin-5-one;

ethyl 2-[6-({[(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]-4-hydroxy-1,3-thiazole-5-carboxylate;

2-[6-({[(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]-4-methoxy-1,3-thiazole-5-carboxamide;

2-[6-({[(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]-4-methoxy-1,3-thiazole-5-carboxylic acid;

1-{2-[6-({[(3-fluoro-2-pyridyl)cyclobutyl]methyl}amino)pyridazin-3-yl]-1,3-thiazol-5-yl}ethan-1-ol;

2,2,2-trifluoro-1-{2-[6-({[(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl](1,3-thiazol-5-yl)}ethan-1-ol;

{2-[6-({[(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl](1,3-thiazol-5-yl)}-N-(methylethyl)carboxamide;

ethyl 2-[6-({[(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]-1,3-thiazole-4-carboxylate;

2-[6-({[(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]-3-pyrrolino[3,4-d]1,3-thiazol-6-one;

1-{2-[6-({[(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]-1,3-thiazol-5-yl}ethan-1-one;

2-{2-[6-({[(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]-1,3-thiazol-5-yl}propan-2-ol;

1,1,1-trifluoro-2-{2-[6-({[(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl](1,3-thiazol-5-yl)}propan-2-ol;

{2-[6-({[(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl](1,3-thiazol-5-yl)}-N-methylcarboxamide;

3-(6-({[(2-pyridyl)cyclobutyl]methyl}amino)pyridazin-3-yl)benzenecarbonitrile;

3-(6-{methyl[(2-pyridyl)cyclobutyl]methyl}amino)pyridazin-3-yl)benzamide;

6-[6-({[(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]pyrazine-2-carbonitrile;

6-[6-({[(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]pyrazine-2-carboxamide;

2-[6-({[(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]-4-hydroxy-1,3-thiazole-5-carbonitrile;

2-(6-({[(2-pyridyl)cyclobutyl]methyl}amino)pyridazin-3-yl)-1,3-thiazole-5-carboxamide;

2-(6-({[(2-pyridyl)cyclobutyl]methyl}amino)pyridazin-3-yl)-1,3-thiazole-5-carboxylic acid;

3-{5-[6-({[(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]-2-thienyl}-1,2,4-triazolin-5-one;

3-[6-({[(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]-1,2,4-triazolin-5-

one;

amino{2-[6-({[(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl](1,3-thiazol-5-yl)}methane-1-thione;

2,2,2-trifluoro-1-{2-[6-({[(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl](1,3-thiazol-5-yl)}ethane-1,1-diol;

{{[(3-fluoro(2-pyridyl))cyclobutyl]methyl}{6-[5-(2,2,2-trifluoroethyl)(1,3-thiazol-2-yl)]pyridazin-3-yl}amine;

5-[6-({[(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]thiophene-2-carbonitrile;

2-[6-({[(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]thiopheno[2,3-c]3-pyrrolin-6-one;

{6-[5-(1-amino-2,2,2-trifluoroethyl)(1,3-thiazol-2-yl)]pyridazin-3-yl}{{[(3-fluoro(2-pyridyl))cyclobutyl]methyl}amine;

[6-(2-aminopyrimidin-4-yl)pyridazin-3-yl]{{[(3-fluoro(2-pyridyl))cyclobutyl]methyl}amine;

2-{5-[6-({[(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]-1,2,3,4-tetraazol-2-yl}acetamide;

{6-[2-(2-aminoethyl)(1,2,3,4-tetraazol-5-yl)]pyridazin-3-yl}{{[(3-fluoro(2-pyridyl))cyclobutyl]methyl}amine;

[6-(3-(2H-1,2,3,4-tetraazol-5-yl)phenyl)pyridazin-3-yl]{{[(3-fluoro(2-pyridyl))cyclobutyl]methyl}amine;

3-{3-[6-({[(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]phenyl}-1,2,4-triazolin-5-one;

3-{4-fluoro-3-[6-({[(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]phenyl}-1,2,4-triazolin-5-one;

{6-[5-(aminomethyl)(1,3-thiazol-2-yl)]pyridazin-3-yl}{{[(3-fluoro(2-pyridyl))cyclobutyl]methyl}amine;

N-((2-(6-((1-(3-fluoropyridin-2-yl)cyclobutyl)methylamino)pyridazin-3-yl)thiazol-5-yl)methyl)-2-methylpropane-2-sulfinamide;

{6-[5-(aminoethyl)(1,3-thiazol-2-yl)]pyridazin-3-yl}{{[(3-fluoro(2-pyridyl))cyclobutyl]methyl}amine;

{6-[5-(3-aminooxetan-3-yl)(1,3-thiazol-2-yl)]pyridazin-3-yl}{[(3-fluoro(2-pyridyl))cyclobutyl]methyl}amine;
 2-[6-({[(3-fluoro-2-pyridyl)cyclobutyl]methyl}amino)pyridazin-3-yl]pyrimidine-4-carboxamide;
 {2-[6-({[(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl](1,3-thiazol-5-yl)}-N-(2-hydroxyethyl)carboxamide;
 ethyl 5-chloro-2-[5-chloro-6-({[(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]-1,3-thiazole-4-carboxylate;
 N-{4-[6-({[(3-fluoro-2-pyridyl)cyclobutyl]methyl}amino)pyridazin-3-yl]pyrimidin-2-yl}acetamide;
 {4-[6-({[(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]pyrimidin-2-yl}(methylsulfonyl)amine;
 (2E)-3-amino-3-{2-[6-({[(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl](1,3-thiazol-5-yl)}-2-azaprop-2-enenitrile;
 N-({2-[6-({[(3-fluoro-2-pyridyl)cyclobutyl]methyl}amino)pyridazin-3-yl]-1,3-thiazol-5-yl}methyl)acetamide;
 ({2-[6-({[(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl](1,3-thiazol-5-yl)}methyl)(methylsulfonyl)amine;
 N-({2-[6-({[(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl](1,3-thiazol-5-yl)}methyl)methoxycarboxamide;
 2,2-difluoro-1-{2-[6-({[(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl](1,3-thiazol-5-yl)}ethan-1-ol;
 2-[6-({[(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl](1,3-thiazol-5-yl)morpholin-4-yl ketone;
 N-(2-aminoethyl){2-[6-({[(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl](1,3-thiazol-5-yl)}carboxamide;
 N-(2,3-dihydroxypropyl){2-[6-({[(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl](1,3-thiazol-5-yl)}carboxamide;
 {2-[6-({[(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl](1,3-thiazol-5-yl)}-N-pyrrolidin-3-ylcarboxamide;
 2-{2-[6-({[(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]-1,3-thiazol-5-

yl}acetamide;

{[(3-fluoro(2-pyridyl))cyclobutyl]methyl}[6-(5-pyrazol-4-yl(1,3-thiazol-2-yl))pyridazin-3-yl]amine;

{[(3-fluoro(2-pyridyl))cyclobutyl]methyl}[6-(5-pyrazol-3-yl(1,3-thiazol-2-yl))pyridazin-3-yl]amine;

4-[6-({[(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]pyrimidine-2-carboxamide;

6-[6-({[(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]pyrimidine-4-carboxamide;

N-(carbamoylmethyl){2-[6-({[(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl](1,3-thiazol-5-yl)}carboxamide;

4-({2-[6-({[(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]-1,3-thiazol-5-yl}carbonyl)piperazine-2-carboxamide;

[6-(5-chloro(1,3-thiazolino[5,4-b]pyridin-2-yl))pyridazin-3-yl]{[(3-fluoro(2-pyridyl))cyclobutyl]methyl}amine;

{[(3-fluoro(2-pyridyl))cyclobutyl]methyl}[6-(1,3-thiazolino[5,4-b]pyridin-2-yl)pyridazin-3-yl]amine;

[6-(5-amino(1,3-thiazolino[5,4-b]pyridin-2-yl))pyridazin-3-yl]{[(3-fluoro(2-pyridyl))cyclobutyl]methyl}amine;

amino{4-fluoro-3-[6-({[(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]phenyl}sulfonamide;

2-[6-({[(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl](1,3-thiazol-5-yl)3-hydroxypyrrolidinyl ketone;

4-({2-[6-({[(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]-1,3-thiazol-5-yl}carbonyl)-1,4-thiazaperhydroine-1,1-dione;

N-(1,1-dioxothiolan-3-yl){2-[6-({[(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl](1,3-thiazol-5-yl)}carboxamide;

{2-[6-({[(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl](1,3-thiazol-5-yl)}-N-[2-(methylsulfonyl)ethyl]carboxamide;

2-[6-({[(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl](1,3-thiazol-5-yl)3-hydroxypiperidyl ketone;

{[(3-fluoro(2-pyridyl))cyclobutyl]methyl}(6-pyrazolo[5,4-d]1,3-thiazol-5-yl)pyridazin-3-yl)amine;
 2-[6-({[(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl](1,3-thiazol-5-yl)4-hydroxypiperidyl ketone;
 4-({2-[6-({[(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]-1,3-thiazol-5-yl}carbonyl)piperazin-2-one;
 {2-[6-({[(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl](1,3-thiazol-5-yl)}-N-(oxolan-2-ylmethyl)carboxamide;
 1-({2-[6-({[(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]-1,3-thiazol-5-yl}carbonyl)piperidine-3-carboxamide;
 2-[6-({[(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]-1,3-thiazolino[5,4-b]pyridine-5-carboxamide;
 {[(3-fluoro(2-pyridyl))cyclobutyl]methyl}[6-(5-methoxy(1,3-thiazolino[5,4-b]pyridin-2-yl))pyridazin-3-yl]amine;
 2-[6-({[(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]-1,3-thiazolino[5,4-b]pyridin-5-ol;
 N-((2R)-2,3-dihydroxypropyl){2-[6-({[(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl](1,3-thiazol-5-yl)}carboxamide;
 N-((2S)-2,3-dihydroxypropyl){2-[6-({[(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl](1,3-thiazol-5-yl)}carboxamide;
 N-(2-amino-3,3,3-trifluoropropyl){2-[6-({[(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl](1,3-thiazol-5-yl)}carboxamide;
 N-(3-amino-2,2-difluoropropyl){2-[6-({[(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl](1,3-thiazol-5-yl)}carboxamide;
 {2-[6-({[(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl](1,3-thiazol-5-yl)}-N,N-dimethylcarboxamide;
 N-(2,2-difluoro-3-hydroxypropyl){2-[6-({[(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl](1,3-thiazol-5-yl)}carboxamide;
 {2-[6-({[(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl](1,3-thiazol-5-yl)}-N-(2-oxopyrrolidin-3-yl)carboxamide;
 3-[6-({[(3-fluoro-1-(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-

yl]benzamide;

2-amino-N-({2-[6-({[(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl](1,3-thiazol-5-yl))methyl}acetamide;

((2S)pyrrolidin-2-yl)-N-({2-[6-({[(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl](1,3-thiazol-5-yl))methyl}carboxamide;

((2R)pyrrolidin-2-yl)-N-({2-[6-({[(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl](1,3-thiazol-5-yl))methyl}carboxamide;

{[(3-fluoro(2-pyridyl))cyclobutyl]methyl}(6-(3-pyrrolino[3,4-d]1,3-thiazol-2-yl)pyridazin-3-yl)amine;

2-[6-({[(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]-5-(methylsulfonyl)-3-pyrrolino[3,4-d]1,3-thiazole;

2-[(2-[6-({[(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]-1,3-thiazol-5-yl)methyl]amino]acetamide;

((2S)-5-oxopyrrolidin-2-yl)-N-({2-[6-({[(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl](1,3-thiazol-5-yl))methyl}carboxamide;

N-({2-[6-({[(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl](1,3-thiazol-5-yl))methyl)-2-hydroxy-2-methylpropanamide;

N-((3S)pyrrolidin-3-yl){2-[6-({[(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl](1,3-thiazol-5-yl)}carboxamide;

N-((3R)pyrrolidin-3-yl){2-[6-({[(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl](1,3-thiazol-5-yl)}carboxamide;

((3S)morpholin-3-yl)-N-({2-[6-({[(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl](1,3-thiazol-5-yl))methyl}carboxamide;

N-({2-[6-({[(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl](1,3-thiazol-5-yl))methyl}pyrazol-5-ylcarboxamide;

N-({2-[6-({[(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl](1,3-thiazol-5-yl))methyl}imidazol-2-ylcarboxamide;

N-({2-[6-({[(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl](1,3-thiazol-5-yl))methyl}pyrazol-4-ylcarboxamide;

((4S)-2-oxoimidazolidin-4-yl)-N-({2-[6-({[(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl](1,3-thiazol-5-yl))methyl}carboxamide;

((3S)-6-oxo(3-piperidyl))-N-({2-[6-({[(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl](1,3-thiazol-5-yl))methyl}carboxamide;
 2H-1,2,3-triazol-4-yl-N-({2-[6-({[(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl](1,3-thiazol-5-yl))methyl}carboxamide;
 (2S)-2-amino-N-({2-[6-({[(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl](1,3-thiazol-5-yl))methyl}-3-hydroxypropanamide;
 (2R)-2-amino-N-({2-[6-({[(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl](1,3-thiazol-5-yl))methyl}-3-hydroxypropanamide;
 ((2S)-4-acetyl piperazin-2-yl)-N-({2-[6-({[(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl](1,3-thiazol-5-yl))methyl}carboxamide;
 [(2S)-4-(methylsulfonyl)piperazin-2-yl]-N-({2-[6-({[(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl](1,3-thiazol-5-yl))methyl}carboxamide;
 ((3S)morpholin-3-yl)-N-({2-[6-({[(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl](1,3-thiazol-5-yl))methyl}carboxamide;
 1H-1,2,4-triazol-5-yl-N-({2-[6-({[(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl](1,3-thiazol-5-yl))methyl}carboxamide;
 ((2R)-6-oxo(2-piperidyl))-N-({2-[6-({[(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl](1,3-thiazol-5-yl))methyl}carboxamide;
 N-({2-[6-({[(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl](1,3-thiazol-5-yl))methyl}imidazol-5-yl}carboxamide;
 N-({2-[6-({[(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl](1,3-thiazol-5-yl))methyl}(2-hydroxyimidazol-5-yl)carboxamide;
 ((3R)-1,1-dioxo(1,4-thiazaperhydroin-3-yl))-N-({2-[6-({[(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl](1,3-thiazol-5-yl))methyl}carboxamide;
 ((2S)-4,4-difluoropyrrolidin-2-yl)-N-({2-[6-({[(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl](1,3-thiazol-5-yl))methyl}carboxamide;
 tert-butyl (2S)-4,4-difluoro-2-[N-({2-[6-({[(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl](1,3-thiazol-5-yl))methyl}carbonyl]pyrrolidinecarboxylate;
 ((2S)-4,4-difluoro-1-formylpyrrolidin-2-yl)-N-({2-[6-({[(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl](1,3-thiazol-5-yl))methyl}carboxamide;

((2R,4R)-4-fluoropyrrolidin-2-yl)-N-({2-[6-({[(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl](1,3-thiazol-5-yl)}methyl)carboxamide;
 N-({2-[6-({[(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl](1,3-thiazol-5-yl)}methyl)-2-methylpropanamide;
 amino-N-({2-[6-({[(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl](1,3-thiazol-5-yl)}methyl)amide;
 ((3S)-1,1-dioxo(1,4-thiazaperhydroin-3-yl))-N-({2-[6-({[(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl](1,3-thiazol-5-yl)}methyl)carboxamide;
 N-({2-[6-({[(3-fluoro-1-(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]-1,3-thiazol-5-yl)}methyl)acetamide;
 N-({2-[6-({[(3-fluoro-1-(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]-1,3-thiazol-5-yl)}methyl)acetamide;
 4-fluoro-3-[6-({[(3-fluoro-1-(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]benzenecarbonitrile;
 3-[6-({[(3-fluoro-1-(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]-4-hydroxybenzamide;
 4-fluoro-3-[6-({[(3-fluoro-1-(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]benzoic acid;
 N-((2R)-2,3-dihydroxypropyl){4-fluoro-3-[6-({[(3-fluoro-1-(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]phenyl}carboxamide;
 N-((3R)pyrrolidin-3-yl){4-fluoro-3-[6-({[(3-fluoro-1-(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]phenyl}carboxamide;
 N-((3S)pyrrolidin-3-yl){4-fluoro-3-[6-({[(3-fluoro-1-(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]phenyl}carboxamide;
 [6-(3-(2H-1,2,3,4-tetraazol-5-yl)phenyl)pyridazin-3-yl]{[(3-fluoro-1-(3-fluoro(2-pyridyl))cyclobutyl]methyl}amine;
 2-[6-({[(3-fluoro-2-pyridyl)cyclobutyl]methyl}amino)pyridazin-3-yl]-1,3-thiazole-5-sulfonamide;
 (aminocyclopropyl)-N-({2-[6-({[(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl](1,3-thiazol-5-yl)}methyl)carboxamide;
 (N-{1-[N-({2-[6-({[(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl](1,3-

thiazol-5-yl))methyl)carbamoxy]-isopropyl)carbamoxyloxy)ethyl 2-methylpropanoate;
 3-[6-({[3-fluoro-1-(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]benzoic acid;
 3-(6-({[3-fluoro-1-(2-pyridyl)cyclobutyl]methyl}amino)pyridazin-3-yl)benzoic acid;
 3-(6-({[3-fluoro-1-(2-pyridyl)cyclobutyl]methyl}amino)pyridazin-3-yl)benzoic acid;
 3-[6-({[3-fluoro-1-(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]benzenecarbonitrile;
 N-((2S)-2,3-dihydroxypropyl){4-fluoro-3-[6-({[3-fluoro-1-(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]phenyl}carboxamide;
 methyl 4-fluoro-3-[6-({[3-fluoro-1-(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]benzoate;
 {4-fluoro-3-[6-({[3-fluoro-1-(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]phenyl}-N-methylcarboxamide;
 {4-fluoro-3-[6-({[3-fluoro-1-(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]phenyl}-N-(methylethyl)carboxamide;
 methyl 3-[6-({[3-fluoro-1-(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]benzoate;
 methylethyl 4-fluoro-3-[6-({[3-fluoro-1-(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]benzoate;
 6-[6-({[3-fluoro-2-pyridyl)cyclobutyl]methyl}amino)pyridazin-3-yl]imidazo[2,1-b]1,3-thiazoline-3-carboxamide;
 6-[6-({[3-fluoro-2-pyridyl)cyclobutyl]methyl}amino)pyridazin-3-yl]imidazo[2,1-b]1,3-thiazoline-3-carboxylic acid;
 6-[6-({[3-fluoro-1-(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]imidazo[2,1-b]1,3-thiazoline-3-carboxamide;
 3-[6-({[3-fluoro-1-(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]benzenesulfonamide;
 {5-[6-({[3-fluoro-1-(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]}(1H-indazol-3-yl)}(methylsulfonyl)amine;
 {[3-fluoro-1-(3-fluoro(2-pyridyl))cyclobutyl]methyl}{6-[3-(methylamino)(1H-indazol-5-yl)]pyridazin-3-yl}amine;

{6-[3-(ethylamino)(1H-indazol-5-yl)]pyridazin-3-yl}{[3-fluoro-1-(3-fluoro(2-pyridyl))cyclobutyl]methyl}amine;
 ethyl 2-fluoro-5-[6-({[3-fluoro-1-(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]benzoate;
 2-fluoro-5-[6-({[3-fluoro-1-(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]benzoic acid;
 2-{4-fluoro-3-[6-({[3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]phenyl}acetamide;
 methyl 2-{4-fluoro-3-[6-({[3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]phenyl}acetate;
 N-({4-fluoro-3-[6-({[3-fluoro-1-(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]phenyl}methyl)acetamide;
 N-({3-[6-({[3-fluoro-1-(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]phenyl}methyl)acetamide;
 {2-fluoro-5-[6-({[3-fluoro-1-(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]phenyl}-N-methylcarboxamide;
 N-ethyl{2-fluoro-5-[6-({[3-fluoro-1-(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]phenyl}carboxamide;
 methyl 5-[6-({[3-fluoro-1-(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]-2-(methylamino)benzoate;
 ethyl 5-[6-({[3-fluoro-1-(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]-2-(methylamino)benzoate;
 {3-[6-({[3-fluoro-1-(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]phenyl}methan-1-ol;
 ((2S)azetidin-2-yl)-N-({2-[6-({[3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl](1,3-thiazol-5-yl)}methyl)carboxamide;
 ethyl 2-{2-[6-({[3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]-1,3-thiazol-4-yl}acetate;
 2-{2-[6-({[3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]-1,3-thiazol-4-yl}acetamide;
 2-{2-[6-({[3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl](1,3-thiazol-

5-yl))-2-methylpropanenitrile;

2-{2-[6-({[(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl](1,3-thiazol-5-yl))-2-methylpropanamide;

3-{2-[6-({[(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]-1,3-thiazol-5-yl}propanamide;

3-{2-[6-({[(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]-1,3-thiazol-5-yl}propanoic acid;

methyl 3-{2-[6-({[(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]-1,3-thiazol-5-yl}propanoate;

2-amino-N-({2-[6-({[(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl](1,3-thiazol-5-yl))methyl)-2-methyl-N-methylpropanamide;

2-{2-[6-({[3-fluoro-1-(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]-1,3-thiazol-5-yl}acetamide;

2-{2-[6-({[3-fluoro-1-(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]-1,3-thiazol-5-yl}acetic acid;

(3-aminooxetan-3-yl)-N-({2-[6-({[(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl](1,3-thiazol-5-yl))methyl}carboxamide;

{3-[6-({[(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]phenyl}-N-methylcarboxamide;

{4-fluoro-3-[6-({[(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]phenyl}-N-methylcarboxamide;

N-({5-[6-({[(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]-1,3-thiazol-2-yl)methyl}acetamide;

N-({4-[6-({[(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]-1,3-thiazol-2-yl)methyl}acetamide;

2-{2-[6-({[1-(3-chloro(2-pyridyl))-3-fluorocyclobutyl]methyl}amino)pyridazin-3-yl]-1,3-thiazol-5-yl}acetamide;

{3-[6-({[3-fluoro-1-(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]phenyl}-N-methylcarboxamide;

2-{2-[6-({[(3-chloro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]-1,3-thiazol-5-yl}acetamide;

2-{2-[6-({[(3-fluoro-2-pyridyl)cyclobutyl]methyl}amino)pyridazin-3-yl]-1,3-thiazol-5-yl}acetic acid;

2-{2-[6-({[(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl](1,3-thiazol-5-yl))-N-methylacetamide;

2-{2-[6-({[(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl](1,3-thiazol-5-yl))-N,N-dimethylacetamide;

N-({2-[6-({[(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl](1,3-thiazol-5-yl))methyl)-2-methyl-2-(methylamino)propanamide;

N-ethyl{4-fluoro-3-[6-({[3-fluoro-1-(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]phenyl}carboxamide;

N-(2-fluoroethyl){4-fluoro-3-[6-({[3-fluoro-1-(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]phenyl}carboxamide;

N-(2,2-difluoroethyl){4-fluoro-3-[6-({[3-fluoro-1-(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]phenyl}carboxamide;

{4-fluoro-3-[6-({[3-fluoro-1-(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]phenyl}-N-(2,2,2-trifluoroethyl)carboxamide;

{4-fluoro-3-[6-({[3-fluoro-1-(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]phenyl}-N,N-dimethylcarboxamide;

3-[6-({[(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]-4-hydroxybenzoic acid;

{3-[6-({[(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]-4-hydroxyphenyl}-N-methylcarboxamide;

3-[6-({[(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]-4-hydroxybenzamide;

5-[6-({[(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]-2-methoxypyridine-3-carbonitrile;

5-[6-({[(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]-2-methoxypyridine-3-carboxamide;

5-[6-({[(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]-2-oxohydropyridine-3-carboxylic acid;

5-[6-({[(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]-2-

oxohydropyridine-3-carboxamide;

5-[6-({[3-fluoro-1-(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]-2-hydroxybenzoic acid;

{3-[6-({[3-fluoro-1-(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]phenyl}-N-[2-hydroxy-1-(hydroxymethyl)ethyl]carboxamide;

{5-[6-({[3-fluoro-1-(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]-2-hydroxyphenyl}-N-methylcarboxamide;

5-[6-({[3-fluoro-1-(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]-2-hydroxybenzamide;

{3-[6-({[3-fluoro-1-(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]-4-hydroxyphenyl}-N-methylcarboxamide;

{5-[6-({[3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl](2-thienyl)}-N-methylcarboxamide;

2-[6-({[3-fluoro-2-pyridyl]cyclobutyl]methyl}amino)pyridazin-3-yl]-4,5,6-trihydrocyclopenta[1,2-d]1,3-thiazole-4-carboxamide;

2-[6-({[3-fluoro-2-pyridyl]cyclobutyl]methyl}amino)pyridazin-3-yl]-4,5,6-trihydrocyclopenta[1,2-d]1,3-thiazole-4-carboxylic acid;

{[3-fluoro(2-pyridyl))cyclobutyl]methyl}(6-(4,5,6,7-tetrahydro-1,3-thiazolo[5,4-c]pyridin-2-yl)pyridazin-3-yl)amine;

N-[2-[6-({[3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl](4,5,6-trihydrocyclopenta[2,3-d]1,3-thiazol-4-yl)]methoxycarboxamide;

2-[6-({[3-fluoro-2-pyridyl]cyclobutyl]methyl}amino)pyridazin-3-yl]-4,5,6,7-tetrahydro-1,3-thiazolo[5,4-c]pyridine-5-carboxamide;

5-acetyl-2-[6-({[3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]-4,5,6,7-tetrahydro-1,3-thiazolo[5,4-c]pyridine;

2-[6-({[3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]-5-(methylsulfonyl)-4,5,6,7-tetrahydro-1,3-thiazolo[5,4-c]pyridine;

{5-[6-({[3-fluoro-1-(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]-2-hydroxyphenyl}-N,N-dimethylcarboxamide;

4-[6-({[3-fluoro-1-(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]isoindolin-1-one;

5-[6-({[3-fluoro-1-(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]isoindolin-1-one;

6-[6-({[3-fluoro-1-(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]isoindolin-1-one;

[6-(6-amino(4,5,6,7-tetrahydrobenzothiazol-2-yl))pyridazin-3-yl][[3-fluoro(2-pyridyl))cyclobutyl]methyl}amine;

amino-N-{2-[6-({[3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl](4,5,6,7-tetrahydrobenzothiazol-6-yl)}amide;

N-{3-fluoro-4-[6-({[3-fluoro-1-(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]phenyl}(methylamino)carboxamide;

N-{4-[6-({[3-fluoro-1-(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]phenyl}-N-methyl(methylamino)carboxamide;

2-{2-[6-({[1-(3-chloro(2-pyridyl))-3-fluorocyclobutyl]methyl}amino)pyridazin-3-yl](1,3-thiazol-5-yl)}-N-methylacetamide;

N-{4-[6-({[3-fluoro-1-(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]phenyl}(methylamino)carboxamide;

2-{2-[6-({[3-chloro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl](1,3-thiazol-5-yl)}-N-methylacetamide;

N-cyclopropyl{4-fluoro-3-[6-({[3-fluoro-1-(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]phenyl}carboxamide;

5-[6-({[3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]-8-hydro-3-pyrazolino[1,5-a]pyrimidin-7-one;

7-[6-({[3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]-4-hydro-4-imidazolino[1,2-a]pyrimidin-5-one;

{4-fluoro-5-[6-({[3-fluoro-1-(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]-2-hydroxyphenyl}-N-methylcarboxamide;

4-fluoro-5-[6-({[3-fluoro-1-(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]-2-hydroxybenzamide;

3-[6-({[3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]-4-methyl-3-pyrazolin-5-one;

3-[6-({[3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]-4,4-dimethyl-2-

pyrazolin-5-one;

3-[6-({[(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)-4-methylpyridazin-3-yl]benzenecarbonitrile;

3-[6-({[(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)-4-methylpyridazin-3-yl]benzamide;

N-cyclobutyl{4-fluoro-3-[6-({[(3-fluoro-1-(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]phenyl}carboxamide;

4-fluoro-3-[6-({[(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)-4-methylpyridazin-3-yl]benzamide;

N-(3,3-difluorocyclobutyl){4-fluoro-3-[6-({[(3-fluoro-1-(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]phenyl}carboxamide;

4-fluoro-3-[6-({[(3-fluoro-1-(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]-2-hydroxybenzamide;

2-[6-({[(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)-4-methylpyridazin-3-yl]-1,3-thiazole-5-carboxamide;

3-[6-({[(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)-5-methylpyridazin-3-yl]benzamide;

N-cyclopropyl{3-[6-({[(3-fluoro-1-(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]phenyl}carboxamide;

[6-(2-aminopyrimidin-5-yl)pyridazin-3-yl]{[(3-fluoro-1-(3-fluoro(2-pyridyl))cyclobutyl]methyl}amine;

N-azetidin-3-yl{3-[6-({[(3-fluoro-1-(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]phenyl}carboxamide;

N-(1-acetylazetidin-3-yl){3-[6-({[(3-fluoro-1-(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]phenyl}carboxamide;

{3-[6-({[(3-fluoro-1-(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]phenyl}-N-[1-(methylsulfonyl)azetidin-3-yl]carboxamide;

{3-[6-({[(3-fluoro-1-(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]phenyl}-N-(2-hydroxy-2-methylpropyl)carboxamide;

{3-[6-({[(3-fluoro-1-(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]phenyl}-N-(1-methylazetidin-3-yl)carboxamide;

{3-[6-({[(3-fluoro-1-(3-fluoro(2-pyridyl))cyclobutyl)methyl]amino)pyridazin-3-yl]phenyl}-N-oxetan-3-yl)carboxamide;
 2-{2-[6-({[(3-fluoro(2-pyridyl))cyclobutyl)methyl]amino)-4-methylpyridazin-3-yl]-1,3-thiazol-5-yl}acetic acid;
 {2-[6-({[(3-fluoro(2-pyridyl))cyclobutyl)methyl]amino)-4-methylpyridazin-3-yl]-1,3-thiazol-5-yl}methan-1-ol;
 2-{2-[6-({[(3-fluoro(2-pyridyl))cyclobutyl)methyl]amino)-4-methylpyridazin-3-yl](1,3-thiazol-5-yl)}-N-methylacetamide;
 2-{2-[6-({[(3-fluoro(2-pyridyl))cyclobutyl)methyl]amino)-4-methylpyridazin-3-yl]-1,3-thiazol-5-yl}acetamide;
 {4-fluoro-3-[6-({[(3-fluoro-1-(3-fluoro(2-pyridyl))cyclobutyl)methyl]amino)pyridazin-3-yl]phenyl}-N-(1-methylazetidin-3-yl)carboxamide;
 N-(1-acetylazetidin-3-yl){4-fluoro-3-[6-({[(3-fluoro-1-(3-fluoro(2-pyridyl))cyclobutyl)methyl]amino)pyridazin-3-yl]phenyl}carboxamide;
 {3-[6-({[(3-fluoro-1-(3-fluoro(2-pyridyl))cyclobutyl)methyl]amino)pyridazin-3-yl]phenyl}-N-(3-hydroxycyclobutyl)carboxamide;
 {[{(3-fluoro(2-pyridyl))cyclobutyl)methyl}{6-[5-(piperazinylmethyl)(1,3-thiazol-2-yl)]pyridazin-3-yl}amine;
 {[{(3-fluoro(2-pyridyl))cyclobutyl)methyl}{6-[5-(morpholin-4-ylmethyl)(1,3-thiazol-2-yl)]pyridazin-3-yl}amine;
 4-({2-[6-({[(3-fluoro-2-pyridyl))cyclobutyl)methyl]amino)pyridazin-3-yl]-1,3-thiazol-5-yl)methyl)-1,4-thiazaperhydroine-1,1-dione;
 {[{(3-fluoro(2-pyridyl))cyclobutyl)methyl}{6-[5-[(4-methylpiperazinyl)methyl](1,3-thiazol-2-yl)]pyridazin-3-yl}amine;
 {[{(3-fluoro(2-pyridyl))cyclobutyl)methyl}{6-[5-[4-(2,2,2-trifluoroethyl)piperazinyl)methyl](1,3-thiazol-2-yl)]pyridazin-3-yl}amine;
 1-acetyl-4-({2-[6-({[(3-fluoro(2-pyridyl))cyclobutyl)methyl]amino)pyridazin-3-yl](1,3-thiazol-5-yl)}methyl)piperazine;
 1-({2-[6-({[(3-fluoro(2-pyridyl))cyclobutyl)methyl]amino)pyridazin-3-yl](1,3-thiazol-5-yl)}methyl)-4-(methylsulfonyl)piperazine;
 [(2S)-1-({2-[6-({[(3-fluoro(2-pyridyl))cyclobutyl)methyl]amino)pyridazin-3-yl](1,3-

thiazol-5-yl))methyl)piperazin-2-yl]methan-1-ol;

[(2R)-1-({2-[6-({[(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl](1,3-thiazol-5-yl))methyl)piperazin-2-yl]methan-1-ol;

N-(2H-3,4,5,6-tetrahydropyran-4-yl){3-[6-({[3-fluoro-1-(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]phenyl}carboxamide;

{3-[6-({[3-fluoro-1-(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]phenyl}-N-(3-hydroxy-3-methylcyclobutyl)carboxamide;

N-((3S)oxolan-3-yl){3-[6-({[3-fluoro-1-(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]phenyl}carboxamide;

N-((3R)oxolan-3-yl){3-[6-({[3-fluoro-1-(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]phenyl}carboxamide;

N-((3S,4S)-4-hydroxy-1,1-dioxothiolan-3-yl){3-[6-({[3-fluoro-1-(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]phenyl}carboxamide;

N-(1,1-dioxothiolan-3-yl){3-[6-({[3-fluoro-1-(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]phenyl}carboxamide;

3-[6-({[3-fluoro-1-(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]-2-hydroxybenzamide;

3-[6-({[3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]-2-hydroxybenzamide;

5-amino-3-[6-({[3-fluoro-1-(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]benzenecarbonitrile;

3-[6-({[3-fluoro-1-(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]-5-(trifluoromethyl)benzamide;

5-chloro-3-[6-({[3-fluoro-1-(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]benzamide;

3-[6-({[3-fluoro-1-(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]-5-hydroxybenzamide;

5-amino-3-[6-({[3-fluoro-1-(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]benzamide;

{3-[6-({[3-fluoro-1-(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]-2-hydroxyphenyl}-N-methylcarboxamide;

3-[6-({[3-fluoro-1-(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]-2-hydroxybenzenecarbonitrile;

3-[6-({[3-fluoro-1-(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]-2-methoxybenzenecarbonitrile;

3-[6-({[3-fluoro-1-(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]-2-hydroxybenzoic acid;

5-[6-({[3-fluoro-1-(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]-2-methoxybenzamide;

N-(1,1-dioxothietan-3-yl){3-[6-({[3-fluoro-1-(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]phenyl}carboxamide;

4-fluoro-3-[6-({[3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]-2-hydroxybenzamide;

4-fluoro-5-[6-({[3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]-2-hydroxybenzamide;

{3-[6-({[3-fluoro-1-(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]phenyl}-N-[(hydroxycyclopropyl)methyl]carboxamide;

{3-[6-({[3-fluoro-1-(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]-5-methylphenyl}-N-methylcarboxamide;

3-[6-({[3-fluoro-1-(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]-5-methylbenzamide;

3-[6-({[3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]-2-hydroxy-5-methylbenzamide;

3-[6-({[3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]-2-hydroxy-5-methylbenzenecarbonitrile;

5-bromo-3-[6-({[3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]-2-hydroxybenzenecarbonitrile;

3-[6-({[3-fluoro-1-(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]-2-methoxybenzamide;

{5-bromo-3-[6-({[3-fluoro-1-(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]-2-hydroxyphenyl}-N-methylcarboxamide;

{3-[6-({[3-fluoro-1-(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]-2-

hydroxy-5-methylphenyl)-N-methylcarboxamide;

methyl 5-[6-({[3-fluoro-1-(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]indole-2-carboxylate;

5-[6-({[3-fluoro-1-(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]indole-2-carboxamide;

5-[6-({[3-fluoro-1-(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]indole-2-carboxylic acid;

{5-[6-({[3-fluoro-1-(3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl]indol-2-yl}-N-methylcarboxamide;

[6-(6-amino(3-pyridyl))pyridazin-3-yl]{[3-fluoro-1-(3-fluoro(2-pyridyl))cyclobutyl]methyl}amine;

{[3-fluoro-1-(3-fluoro(2-pyridyl))cyclobutyl]methyl}{6-[6-(methylamino)(3-pyridyl)]pyridazin-3-yl}amine;

{6-[6-(cyclopropylamino)(3-pyridyl)]pyridazin-3-yl}{[3-fluoro-1-(3-fluoro(2-pyridyl))cyclobutyl]methyl}amine;

{6-[6-amino-5-(trifluoromethyl)(3-pyridyl)]pyridazin-3-yl}{[3-fluoro-1-(3-fluoro(2-pyridyl))cyclobutyl]methyl}amine;

[N-({2-[6-({[3-fluoro-2-pyridyl]cyclobutyl]methyl}amino)pyridazin-3-yl]-1,3-thiazol-5-yl)methyl)carbamoyl]methyl acetate;

[N-({2-[6-({[3-fluoro-2-pyridyl]cyclobutyl]methyl}amino)pyridazin-3-yl]-1,3-thiazol-5-yl)methyl)carbamoyl]methyl (2S)-2-amino-3-methylbutanoate;

[N-({2-[6-({[3-fluoro-2-pyridyl]cyclobutyl]methyl}amino)pyridazin-3-yl]-1,3-thiazol-5-yl)methyl)carbamoyl]methyl (2S)-2-aminopropanoate;

{[3-fluoro-1-(3-fluoro(2-pyridyl))cyclobutyl]methyl}[6-(6-methoxy-5-methyl(3-pyridyl))pyridazin-3-yl]amine;

[6-(6-amino-5-methyl(3-pyridyl))pyridazin-3-yl]{[3-fluoro-1-(3-fluoro(2-pyridyl))cyclobutyl]methyl}amine;

(2S)-N-({2-[6-({[3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl](1,3-thiazol-5-yl)methyl)-2-hydroxypropanamide;

(2R)-N-({2-[6-({[3-fluoro(2-pyridyl))cyclobutyl]methyl}amino)pyridazin-3-yl](1,3-thiazol-5-yl)methyl)-2-hydroxypropanamide;

2-[(2-[6-([(3-fluoro-2-pyridyl)cyclobutyl]methyl)amino)pyridazin-3-yl]-1,3-thiazol-5-yl)methyl]amino]ethan-1-ol;

N-[(2-[6-([(3-fluoro-2-pyridyl)cyclobutyl]methyl)amino)pyridazin-3-yl](1,3-thiazol-5-yl)methyl)-2-hydroxy-N-methylacetamide;

[N-[(2-[6-([(3-fluoro-2-pyridyl)cyclobutyl]methyl)amino)pyridazin-3-yl]-1,3-thiazol-5-yl)methyl]carbonyl]methyl (2S)-2-((2S)-2-aminopropanoylamino)propanoate; and

[N-[(2-[6-([(3-fluoro-2-pyridyl)cyclobutyl]methyl)amino)pyridazin-3-yl]-1,3-thiazol-5-yl)methyl]carbonyl]methyl (2S)-2-((2S)-2-amino-3-methylbutanoylamino)-3-methylbutanoate;

or a pharmaceutically acceptable salt thereof.

48. A pharmaceutical composition comprising a compound of any one of claims 1 to 47, or a pharmaceutically acceptable salt thereof.

49. The pharmaceutical composition of claim 48, wherein the pharmaceutical composition is formulated as a tablet.

50. The pharmaceutical composition of claim 48, wherein the pharmaceutical composition is formulated as a capsule.

51. The use of a compound of any one of claims 1 to 47, or a pharmaceutically acceptable salt thereof, for the preparation of a medicament for the treatment of a disease selected from Amyotrophic Lateral Sclerosis (ALS), Spinal Muscular Atrophy (SMA) and myasthenia gravis.

52. The use of a compound of any one of claims 1 to 47, or a pharmaceutically acceptable salt thereof, for the preparation of a medicament for the treatment of chronic obstructive pulmonary disease (COPD).

53. The use of a compound of any one of claims 1 to 47, or a pharmaceutically acceptable salt thereof, for the preparation of a medicament for the treatment of heart failure.

54. The use of a compound of any one of claims 1 to 47, or a pharmaceutically acceptable salt thereof, for the preparation of a medicament for the treatment of frailty.