wherein R^2 may be unsubstituted or substituted with one or more substituents, each of which independently is halogen, -OH, oxo, -$N(R^b)_2$, C_{1-6} alkyl, C_{1-6} haloalkyl, C_{1-6} alkoxy, C_{1-6}alkylene-OH, C_{1-6}alkylene-O-C_{1-6}alkyl, or C_{1-6} heteroalkyl;

R^3 is -H, C_{1-6} alkyl, C_{1-6} haloalkyl, C_{3-6} cycloalkyl, amino, C_{1-4}alkyl-amino, di-C_{1-4}alkyl-amino, C_{6-10} aryl, heteroaryl having 5 to 10 ring members, or heterocyclyl having 5 to 10 ring members;

wherein, when R^3 is C_{1-6} alkyl, C_{1-6} haloalkyl, C_{3-6} cycloalkyl, C_{1-4}alkyl-amino, di-C_{1-4}alkyl-amino, C_{6-10} aryl, heteroaryl having 5 to 10 ring members, or heterocyclyl having 5 to 10 ring members, then R^3 may be unsubstituted or substituted with one or more substituents, each of which independently is halogen, -OH, oxo, -$N(R^b)_2$, C_{1-3} alkyl, C_{1-3} haloalkyl, C_{1-3} alkoxy, C_{1-3} alkylene-C_{1-3} alkoxy, C_{1-6} heteroalkyl, or two R^3 substituents together form a C_{3-6} carbocyclyl or a heterocyclyl having 3 to 6 ring members;

R^4 is -H, C_{1-3} alkyl, C_{1-3} haloalkyl, -CN, halogen, or -$N(R^a)_2$ where each instance of R^a, where present, independently is -H, C_{1-6} alkyl, or -$C(O)C_{1-6}$ alkyl; or, alternatively, two R^a substituents together form a heterocyclyl having 3 to 6 ring members;

wherein R^a may be unsubstituted or substituted with one or more substituents, each of which independently is -F, -Cl, -OH, C_{1-3} alkoxy;

R^5 is -H, C_{1-6} alkyl, C_{3-6} cycloalkyl, C_{1-6} haloalkyl, or C_{1-6} heteroalkyl;

wherein, when R^5 is C_{1-6} alkyl, C_{3-6} cycloalkyl, C_{1-6} haloalkyl, or C_{1-6} heteroalkyl, then R^5 may be unsubstituted or substituted one or more substituents, each of which independently is halogen, -OH, C_{1-3} alkyl, or C_{1-3} alkoxy;

where each instance of R^b, where present, independently is -H or C_{1-6} alkyl; or, alternatively, two R^b substituents together form a heterocyclyl having 3 to 6 ring members; and

wherein, when R^b is C_{1-6} alkyl or, alternatively, two R^b substituents together form a heterocyclyl having 3 to 6 ring members, then R^b may be unsubstituted or substituted with one or more substituents, each of which independently is -F, -Cl, -OH, C_{1-3} alkoxy.

[0005] In several examples, R^{1a} is -H, C_{1-6} alkyl, C_{1-6} haloalkyl, or C_{1-6} heteroalkyl. In several examples, R^{1a} may be unsubstituted or substituted with 1, 2, 3, or 4 substituents, each of which independently is halogen, -OH, alkyl, or alkoxy.

[0006] In several examples, R^{1b} is -H, C_{1-6} alkyl, C_{1-6} haloalkyl, C_{3-10} cycloalkyl, or heterocyclyl having 3 to 10 ring members. In several examples, R^{1b} may be unsubstituted or substituted 1, 2, 3, or 4 substituents, each of which independently is halogen, -OH, alkyl, or alkoxy.

[0007] In several examples, R^{1a} and R^{1b} together form a C_{3-10} cycloalkyl, C_{3-10} cycloalkenyl, or heterocyclyl having 3 to 10 ring members. In several examples, where R^{1a} and R^{1b} together provide a

cycle, the R^{1a} and R^{1b} cycle may be unsubstituted or substituted with 1, 2, 3, or 4 substituents, each of which independently is halogen, -OH, alkyl, oxo, alkoxy, or heteroalkyl.

[0008] In several examples, R^{1c} is -H, C_{1-6} alkyl, or C_{3-6} cycloalkyl. In several examples, R^{1c} may be unsubstituted or substituted 1, 2, 3, or 4 substituents, each of which independently is halogen, -OH, alkyl, alkoxy, or heteroalkyl.

[0009] In several examples, R^2 is C_{3-10} cycloalkyl, C_{3-10} cycloalkenyl, C_{8-10} cycloalkynyl, C_{6-10} aryl, heteroaryl having 5 to 10 ring members, or heterocyclyl having 3 to 10 ring members. In several examples, R^2 may be unsubstituted or substituted with 1, 2, 3, 4, or 5 substituents, each of which independently is halogen, -OH, oxo, alkyl, haloalkyl, alkoxy, alkylene-OH, alkylene-O- alkyl, or heteroalkyl.

[0010] In several examples, R^3 is -H, C_{1-6} alkyl, C_{1-6} haloalkyl, C_{3-6} cycloalkyl, amino, C_{1-4}alkyl-amino, di-C_{1-4}alkyl-amino, C_{6-10} aryl, heteroaryl having 5 to 10 ring members, or heterocyclyl having 5 to 10 ring members. In several examples, R^3 may be unsubstituted or substituted with 1, 2, 3, 4, or 5 substituents, each of which independently is halogen, -OH, oxo, alkyl, haloalkyl, alkoxy, alkylene- alkoxy, heteroalkyl, or two R^3 substituents together form a carbocyclyl or a heterocyclyl.

[0011] In several examples, R^4 is -H, C_{1-3} alkyl, or $-N(R^a)_2$. In several examples, R^a, where present, independently is -H, C_{1-3} alkyl, or C_{1-6} heteroalkyl. In several examples, R^a, where present, independently is -H or C_{1-3} alkyl. In several examples, R^a may be unsubstituted or substituted with 1, 2, 3, 4, or 5 substituents, each of which independently is halogen, -OH, C_{1-3} haloalkyl, C_{1-3} alkoxy, or two R^a substituents together form a C_{3-6} carbocyclyl or a heterocyclyl having 3 to 6 ring members.

[0012] In several examples, R^5 is -H, C_{1-6} alkyl, C_{3-6} cycloalkyl, C_{1-6} haloalkyl, or C_{1-6} heteroalkyl. In several examples, R^5 may be unsubstituted or substituted 1, 2, 3, or 4 substituents, each of which independently is halogen, -OH, alkyl, or alkoxy.

[0013] In several examples, when R^2 is unsubstituted cyclopropyl, unsubstituted phenyl, or unsubstituted or substituted cycloalkenyl, then one of R^{1a}, R^{1b}, and R^{1c} is not -H.

[0014] Several examples pertain to a pharmaceutical composition comprising a compound or salt of Formula (A) (which may be further defined as a compound or salt of Formula (I)) and a pharmaceutically acceptable excipient.

[0015] Several examples pertain to a compound or salt of Formula (A) (e.g., including a compound or salt of Formula (I)) or a pharmaceutical composition comprising a compound of Formula (A) for use as a medicament.

[0016] Several examples pertain to a compound or salt of Formula (A) (which may be further defined as a compound or salt of Formula (I)) or a pharmaceutical composition comprising a compound of Formula (A) for use in treating a 15-PGDH mediated disease or disorder.

[0017] Several examples pertain to a Formula (A) (e.g., including a compound or salt of Formula (I)) or a pharmaceutical composition comprising a compound of Formula (A) for use in treating inflammatory bowel disease.

[0018] Several examples pertain to a compound or salt of Formula (A) (which may be further defined as a compound or salt of Formula (I)) or a pharmaceutical composition comprising a compound of Formula (A) for use in treating ulcerative colitis.

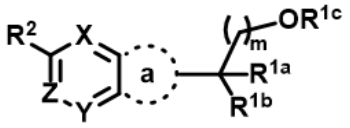
[0019] Several examples pertain to a compound or salt of Formula (A) (which may be further defined as a compound or salt of Formula (I)) or a pharmaceutical composition comprising a compound of Formula (A) for use in treating Crohn's disease.

[0020] Several examples pertain to a compound or salt of Formula (A) (which may be further defined as a compound or salt of Formula (I)) or a pharmaceutical composition comprising a compound of Formula (A) for use in treating a fibrotic disease, disorder or condition.

[0021] Several examples pertain to a method of treating a 15-PGDH mediated disease in a subject in need thereof, the method comprising administering to the subject therapeutically an effective amount of a compound or salt of Formula (A) (which may be further defined as a compound or salt of Formula (I)) or a pharmaceutical composition comprising a compound of Formula (A).

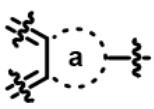
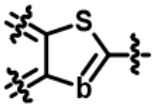
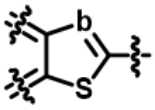
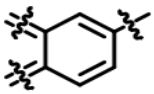
[0022] Several examples pertain to a method of treating intestinal, gastrointestinal, or bowel disorders in a subject in need thereof, the method comprising administering to the subject therapeutically an effective amount of a compound or salt of Formula (A) (which may be further defined as a compound or salt of Formula (I)) or a pharmaceutical composition comprising a compound of Formula (A).

[0022a] In one aspect, the disclosure refers to a compound of Formula (A)



(A)

or a pharmaceutically acceptable salt of said compound;

wherein  is  (i),  (ii), or  (iii);

m is 0 or 1;

X is N or CH;

Y is N or C-R^3;

Z is N or C-R^5;

b is N or C-R^4;

R^{1a} is -H, deuterium, C_{1-6} alkyl, or C_{1-6} haloalkyl;

wherein, when R^{1a} is C_{1-6} alkyl or C_{1-6} haloalkyl, then R^{1a} may be unsubstituted or substituted with one or more substituents, each of which independently is halogen, -OH, -$N(R^b)_2$, C_{1-3} alkyl, or C_{1-3} alkoxy;

R^{1b} is -H, C_{1-6} alkyl, C_{1-6} haloalkyl, C_{1-6} heteroalkyl, -(C_{1-6} alkylene)-O-(C_{1-6} alkyl), C_{3-10} cycloalkyl, or heterocyclyl having 3 to 10 ring members;

wherein, when R^{1b} is C_{1-6} alkyl, C_{1-6} haloalkyl, C_{1-6} heteroalkyl, -(C_{1-6} alkylene)-O-(C_{1-6} alkyl), C_{3-10} cycloalkyl, or heterocyclyl having 3 to 10 ring members, then R^{1b} may be unsubstituted or substituted with one or more substituents, each of which independently is halogen, -OH, -$N(R^b)_2$, C_{1-3} alkyl, or C_{1-3} alkoxy; wherein each of the C_{1-3} alkyl and C_{1-3} alkoxy may be unsubstituted or substituted with 1 to 6 -F groups;

or, alternatively, R^{1a} and R^{1b} together form a C_{3-10} cycloalkyl, C_{3-10} cycloalkenyl, or heterocyclyl having 3 to 10 ring members;

wherein the R^{1a} and R^{1b} cycle may be unsubstituted or substituted with one or more substituents, each of which independently is halogen, -OH, oxo, -$N(R^b)_2$, C_{1-3} alkyl, C_{1-3}alkoxy, -CN, C_{1-6} heteroalkyl, C_{3-10} cycloalkyl, or heterocyclyl having 3 to 10 ring members; wherein each of the C_{1-3} alkyl and C_{1-3} alkoxy may be unsubstituted or substituted with 1 to 9 halogen groups or C_{1-3} alkoxy;

R^{1c} is -H, C_{1-6} alkyl, or C_{3-6} cycloalkyl;

wherein, when R^{1c} is C_{1-6} alkyl or C_{3-6} cycloalkyl, then R^{1c} may be unsubstituted or substituted with one or more substituents, each of which independently is halogen, -OH, $-N(R^b)_2$, C_{1-3} alkyl, C_{1-3} alkoxy, or C_{1-6} heteroalkyl;

R^2 is C_{3-20} cycloalkyl, C_{3-20} cycloalkenyl, C_{6-18} aryl, heteroaryl having 5 to 20 ring members, or heterocyclyl having 3 to 20 ring members;

wherein R^2 may be unsubstituted or substituted with one or more substituents, each of which independently is halogen, -OH, oxo, $-N(R^b)_2$, C_{1-6} alkyl, C_{1-6} haloalkyl, C_{1-6} alkoxy, C_{1-6}alkylene-OH, C_{1-6}alkylene-O-C_{1-6}alkyl, or C_{1-6} heteroalkyl;

R^3 is -H, C_{1-6} alkyl, C_{1-6} haloalkyl, C_{3-6} cycloalkyl, amino, C_{1-4}alkyl-amino, di-C_{1-4}alkyl-amino, C_{6-10} aryl, heteroaryl having 5 to 10 ring members, or heterocyclyl having 5 to 10 ring members;

wherein, when R^3 is C_{1-6} alkyl, C_{1-6} haloalkyl, C_{3-6} cycloalkyl, C_{1-4}alkyl-amino, di-C_{1-4}alkyl-amino, C_{6-10} aryl, heteroaryl having 5 to 10 ring members, or heterocyclyl having 5 to 10 ring members, then R^3 may be unsubstituted or substituted with one or more substituents, each of which independently is halogen, -OH, oxo, $-N(R^b)_2$, C_{1-3} alkyl, C_{1-3} haloalkyl, C_{1-3} alkoxy, C_{1-3} alkylene-C_{1-3} alkoxy, C_{1-6} heteroalkyl, or two R^3 substituents together form a C_{3-6} carbocyclyl or a heterocyclyl having 3 to 6 ring members;

R^4 is -H, C_{1-3} alkyl, C_{1-3} haloalkyl, -CN, halogen, or $-N(R^a)_2$ where each instance of R^a, where present, independently is -H, C_{1-6} alkyl, or -C(O)C_{1-6} alkyl; or, alternatively, two R^a substituents together form a heterocyclyl having 3 to 6 ring members;

wherein R^a may be unsubstituted or substituted with one or more substituents, each of which independently is -F, -Cl, -OH, or C_{1-3} alkoxy;

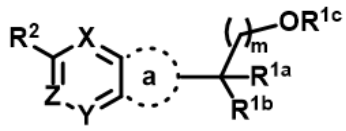
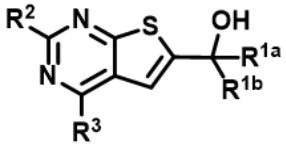
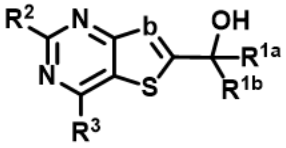
R^5 is -H, C_{1-6} alkyl, C_{3-6} cycloalkyl, C_{1-6} haloalkyl, or C_{1-6} heteroalkyl;

wherein, when R^5 is C_{1-6} alkyl, C_{3-6} cycloalkyl, C_{1-6} haloalkyl, or C_{1-6} heteroalkyl, then R^5 may be unsubstituted or substituted one or more substituents, each of which independently is halogen, -OH, C_{1-3} alkyl, or C_{1-3} alkoxy;

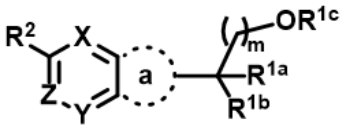
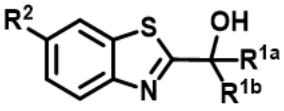
where each instance of R^b, where present, independently is -H or C_{1-6} alkyl; or, alternatively, two R^b substituents together form a heterocyclyl having 3 to 6 ring members; and

wherein, when R^b is C_{1-6} alkyl or, alternatively, two R^b substituents together form a heterocyclyl having 3 to 6 ring members, then R^b may be unsubstituted or substituted with one or more substituents, each of which independently is -F, -Cl, -OH, or C_{1-3} alkoxy;

provided that:

a) if  (A) is  or ,

then R^3 is not unsubstituted or substituted morpholinyl; and

b) if  (A) is  then R^{1a} and R^{1b} are not both methyl, R^{1a} and R^{1b} are not both -CF_3, R^{1a} is not -CF_3 when R^{1b} is methyl, R^{1b} is not -CF_3 when R^{1a} is methyl, and R^{1a} and R^{1b} together do not provide unsubstituted or substituted piperdinyl.

In one aspect, the disclosure refers to a compound, wherein the compound is:

5-(4-cyclobutyl-2-(methoxymethyl)thieno[2,3-*b*]pyridin-6-yl)-2-methyl-2*H*-pyrazolo[3,4-*b*]pyridine;

5-(2-(methoxymethyl)-4-(1-(methoxymethyl)cyclobutyl)thieno[2,3-*b*]pyridin-6-yl)-2-methyl-2*H*-pyrazolo[3,4-*b*]pyridine;

(*R*)-(4,6-bis(1-methyl-1*H*-pyrazol-5-yl)thieno[2,3-*b*]pyridin-2-yl)(cyclobutyl)methanol;

(*S*)-(4,6-bis(1-methyl-1*H* -pyrazol-5-yl)thieno[2,3-*b*]pyridin-2-yl)(cyclobutyl)methanol;

(*R*)-cyclobutyl(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)-4-(1-methyl-1*H*-pyrazol-5-yl)thieno[2,3-*b*]pyridin-2-yl)methanol;

(*S*)-cyclobutyl(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)-4-(1-methyl-1*H*-pyrazol-5-yl)thieno[2,3-*b*]pyridin-2-yl)methanol;

(*R*)-cyclobutyl(4-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)-6-(1-methyl-1*H*-pyrazol-5-yl)thieno[2,3-*b*]pyridin-2-yl)methanol;

(*S*)-cyclobutyl(4-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)-6-(1-methyl-1*H*-pyrazol-5-yl)thieno[2,3-*b*]pyridin-2-yl)methanol;

5-(2-((*R*)-cyclobutyl(methoxy)methyl)-4-(1-methyl-1*H*-pyrazol-5-yl)thieno[2,3-*b*]pyridin-6-yl)-2-methyl-2*H*-pyrazolo[3,4-*b*]pyridine;

5-(2-((*S*)-cyclobutyl(methoxy)methyl)-4-(1-methyl-1*H*-pyrazol-5-yl)thieno[2,3-*b*]pyridin-6-yl)-2-methyl-2*H*-pyrazolo[3,4-*b*]pyridine;

(1*R*)-1-cyclobutyl-1-(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)-4-(1-methyl-1*H*-pyrazol-5-yl)thieno[2,3-*b*]pyridin-2-yl)ethanol;

(1*S*)-1-cyclobutyl-1-(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)-4-(1-methyl-1*H*-pyrazol-5-yl)thieno[2,3-*b*]pyridin-2-yl)ethanol;

(1*R*)-1-cyclobutyl-2,2,2-trifluoro-1-(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)-4-(1-methyl-1*H*-pyrazol-5-yl)thieno[2,3-*b*]pyridin-2-yl)ethanol;

(1*S*)-1-cyclobutyl-2,2,2-trifluoro-1-(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)-4-(1-methyl-1*H*-pyrazol-5-yl)thieno[2,3-*b*]pyridin-2-yl)ethanol;

(1*R*)-1-(4-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)-6-(1-methyl-1*H*-pyrazol-5-yl)thieno[2,3-*b*]pyridin-2-yl)ethanol;

(1*S*)-1-(4-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)-6-(1-methyl-1*H*-pyrazol-5-yl)thieno[2,3-*b*]pyridin-2-yl)ethanol;

(1*R*)-1-(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)-4-(1-methyl-1*H*-pyrazol-5-yl)thieno[2,3-*b*]pyridin-2-yl)ethanol;

(1*S*)-1-(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)-4-(1-methyl-1*H*-pyrazol-5-yl)thieno[2,3-*b*]pyridin-2-yl)ethanol;

(*R*)-cyclobutyl(6-cyclopropyl-4-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)methanol;

(*S*)-cyclobutyl(6-cyclopropyl-4-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)methanol;

(*R*)-cyclobutyl(4-cyclopropyl-6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)methanol;

(*S*)-cyclobutyl(4-cyclopropyl-6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)methanol;

(4-(dimethylamino)-6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridine-2,5-diyl)dimethanol;

(1*R*)-1-(4,6-bis(1-methyl-1*H*-pyrazol-5-yl)thieno[2,3-*b*]pyridin-2-yl)ethanol;

(1*S*)-1-(4,6-bis(1-methyl-1*H*-pyrazol-5-yl)thieno[2,3-*b*]pyridin-2-yl)ethanol;

(1*R*)-1-(4,6-bis(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)ethanol;

(1*S*)-1-(4,6-bis(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)ethanol;

(1*R*)-1-(4-cyclopropyl-6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)ethanol;

(1*S*)-1-(4-cyclopropyl-6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)ethanol;

(1*R*)-1-(6-cyclopropyl-4-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)ethanol;

(1*S*)-1-(6-cyclopropyl-4-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)ethanol;

(1*R*)-1-(4-cyclopropyl-6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)-1-propanol;

(1*S*)-1-(4-cyclopropyl-6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)-1-propanol;

(*R*)-(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)(tetrahydro-2*H*-pyran-4-yl)methanol;

(*S*)-(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)(tetrahydro-2*H*-pyran-4-yl)methanol;

(*R*)-cyclopropyl(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)methanol;

(*S*)-cyclopropyl(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)methanol;

(*R*)-cyclobutyl(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)methanol;

(*S*)-cyclobutyl(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)methanol;

(3*R*)-3-(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)tetrahydro-3-furanol;

(3*S*)-3-(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)tetrahydro-3-furanol;

1-(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)cyclobutanol;

4-(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)tetrahydro-2*H*-pyran-4-ol;

(*R*)-(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)((3*R*)-tetrahydro-3-furanyl)methanol;

(*R*)-(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)((3*S*)-tetrahydro-3-furanyl)methanol;

(*S*)-(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)((3*R*)-tetrahydro-3-furanyl)methanol;

(*S*)-(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)((3*S*)-tetrahydro-3-furanyl)methanol;

3-(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)-3-oxetanol;

1-(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)cyclopentanol;

(1*R*)-1-(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)-1-propanol;

(1*S*)-1-(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)-1-propanol;

(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)methanol;

(1*R*)-2,2,2-trifluoro-1-(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)ethanol;

(1*S*)-2,2,2-trifluoro-1-(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)ethanol;

(1*R*)-2-methyl-1-(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)-1-propanol;

(1*S*)-2-methyl-1-(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)-1-propanol;

(1*R*)-1-(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)ethanol;

(1*S*)-1-(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)ethanol;

(1*R*)-1-(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)-1-butanol;

(1*S*)-1-(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)-1-butanol;

(*R*)-(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)(3-oxetanyl)methanol;

(*S*)-(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)(3-oxetanyl)methanol;

(1*R*)-3-methoxy-1-(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)-1-propanol;

(1*S*)-3-methoxy-1-(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)-1-propanol;

4,4-difluoro-1-(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)cyclohexanol;

(2*R*)-1,1,1-trifluoro-3-methoxy-2-(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)-2-propanol;

(2*S*)-1,1,1-trifluoro-3-methoxy-2-(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)-2-propanol;

(1*R*)-1-cyclopropyl-2,2,2-trifluoro-1-(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)ethanol;

(1*S*)-1-cyclopropyl-2,2,2-trifluoro-1-(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)ethanol;

(*R*)-(3,3-difluorocyclobutyl)(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)methanol;

(*S*)-(3,3-difluorocyclobutyl)(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)methanol;

(*R*)-(4,4-difluorocyclohexyl)(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)methanol;

(*S*)-(4,4-difluorocyclohexyl)(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)methanol;

1-methyl-3-(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)-3-azetidinol;

(3*R*)-1-methyl-3-(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)-3-piperidinol;

(3*S*)-1-methyl-3-(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)-3-piperidinol;

(2*R*)-1,1,1-trifluoro-2-(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)-2-butanol;

(2*S*)-1,1,1-trifluoro-2-(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)-2-butanol;

(1*R*)-2-methoxy-1-(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)ethanol;

(1*S*)-2-methoxy-1-(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)ethanol;

4-(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)tetrahydro-2*H*-thiopyran-4-ol 1,1-dioxide;

2-(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)-2-propanol;

(2*R*)-2-(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)-2-butanol;

(2*S*)-2-(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)-2-butanol;

(1*R*)-1-cyclopropyl-1-(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)ethanol;

(1*S*)-1-cyclopropyl-1-(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)ethanol;

1-methyl-4-(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)-4-piperidinol;

(2*R*)-1-methoxy-2-(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)-2-propanol;

(2*S*)-1-methoxy-2-(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)-2-propanol;

3,3-difluoro-1-(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)cyclobutanol;

(3*R*)-1-methyl-3-(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)-3-pyrrolidinol;

(3*S*)-1-methyl-3-(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)-3-pyrrolidinol;

(*R*)-(1-methyl-4-piperidinyl)(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)methanol;

(*S*)-(1-methyl-4-piperidinyl)(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)methanol;

(*S*)-(6-(1-methyl-1*H*-indazol-5-yl)thieno[2,3-*b*]pyridin-2-yl)(tetrahydro-2*H*-pyran-4-yl)methanol;

(*R*)-(6-(1-methyl-1*H*-indazol-5-yl)thieno[2,3-*b*]pyridin-2-yl)(tetrahydro-2*H*-pyran-4-yl)methanol;

(*S*)-(6-(1-methyl-1*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)(tetrahydro-2*H*-pyran-4-yl)methanol;

(*R*)-(6-(1-methyl-1*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)(tetrahydro-2*H*-pyran-4-yl)methanol;

(2*R*)-1,1,1-trifluoro-4-methoxy-2-(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)-2-butanol;

(2*S*)-1,1,1-trifluoro-4-methoxy-2-(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)-2-butanol;

(*S*)-(6-(1*H*-indazol-5-yl)thieno[2,3-*b*]pyridin-2-yl)(tetrahydro-2*H*-pyran-4-yl)methanol;

(*R*)-(6-(1*H*-indazol-5-yl)thieno[2,3-*b*]pyridin-2-yl)(tetrahydro-2*H*-pyran-4-yl)methanol;

(*S*)-(6-(6-methyl-1*H*-indazol-5-yl)thieno[2,3-*b*]pyridin-2-yl)(tetrahydro-2*H*-pyran-4-yl)methanol;

(*R*)-(6-(6-methyl-1*H*-indazol-5-yl)thieno[2,3-*b*]pyridin-2-yl)(tetrahydro-2*H*-pyran-4-yl)methanol;

(2*R*)-1,1,1-trifluoro-2-(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)-2-propanol;

(2*S*)-1,1,1-trifluoro-2-(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)-2-propanol;

(*S*)-(6-(2-methyl-2*H*-[1,2,3]triazolo[4,5-*b*]pyridin-6-yl)thieno[2,3-*b*]pyridin-2-yl)(tetrahydro-2*H*-pyran-4-yl)methanol;

(*R*)-(6-(2-methyl-2*H*-[1,2,3]triazolo[4,5-*b*]pyridin-6-yl)thieno[2,3-*b*]pyridin-2-yl)(tetrahydro-2*H*-pyran-4-yl)methanol;

(*S*)-(6-(3-methyl-1*H*-indazol-5-yl)thieno[2,3-*b*]pyridin-2-yl)(tetrahydro-2*H*-pyran-4-yl)methanol;

(*R*)-(6-(3-methyl-1*H*-indazol-5-yl)thieno[2,3-*b*]pyridin-2-yl)(tetrahydro-2*H*-pyran-4-yl)methanol;

(2*R*)-4-methoxy-2-(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)-2-butanol;

(2*S*)-4-methoxy-2-(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)-2-butanol;

(*R*)-(6-(3-methyl-3*H*-[1,2,3]triazolo[4,5-*b*]pyridin-6-yl)thieno[2,3-*b*]pyridin-2-yl)(tetrahydro-2*H*-pyran-4-yl)methanol;

(*S*)-(6-(3-methyl-3*H*-[1,2,3]triazolo[4,5-*b*]pyridin-6-yl)thieno[2,3-*b*]pyridin-2-yl)(tetrahydro-2*H*-pyran-4-yl)methanol;

(*R*)-(1-methyl-3-azetidinyl)(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)methanol;

(*S*)-(1-methyl-3-azetidinyl)(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)methanol;

(*S*)-(6-(1,2-benzoxazol-5-yl)thieno[2,3-*b*]pyridin-2-yl)(tetrahydro-2*H*-pyran-4-yl)methanol;

(*R*)-(6-(1,2-benzoxazol-5-yl)thieno[2,3-*b*]pyridin-2-yl)(tetrahydro-2*H*-pyran-4-yl)methanol;

(*S*)-tetrahydro-2*H*-pyran-4-yl(6-(3*H*-[1,2,3]triazolo[4,5-*b*]pyridin-6-yl)thieno[2,3-*b*]pyridin-2-yl)methanol;

(*R*)-tetrahydro-2*H*-pyran-4-yl(6-(3*H*-[1,2,3]triazolo[4,5-*b*]pyridin-6-yl)thieno[2,3-*b*]pyridin-2-yl)methanol;

(*R*)-((2*R*)-1-methyl-2-azetidinyl)(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)methanol;

(*R*)-((2*S*)-1-methyl-2-azetidinyl)(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)methanol;

(*S*)-((2*R*)-1-methyl-2-azetidinyl)(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)methanol;

(*S*)-((2*S*)-1-methyl-2-azetidinyl)(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)methanol;

(*S*)-(3,3-difluorocyclobutyl)(6-(2-methyl-1,3-benzoxazol-5-yl)thieno[2,3-*b*]pyridin-2-yl)methanol;

(*R*)-(3,3-difluorocyclobutyl)(6-(2-methyl-1,3-benzoxazol-5-yl)thieno[2,3-*b*]pyridin-2-yl)methanol;

(*S*)-(3,3-difluorocyclobutyl)(6-(1*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)methanol;

(*R*)-(3,3-difluorocyclobutyl)(6-(1*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)methanol;

(*S*)-(3,3-difluorocyclobutyl)(6-(2-methylimidazo[1,2-*a*]pyridin-6-yl)thieno[2,3-*b*]pyridin-2-yl)methanol;

(*R*)-(3,3-difluorocyclobutyl)(6-(2-methylimidazo[1,2-*a*]pyridin-6-yl)thieno[2,3-*b*]pyridin-2-yl)methanol;

6-(2-((*R*)-(3,3-difluorocyclobutyl)(hydroxy)methyl)thieno[2,3-*b*]pyridin-6-yl)-3-methyl-4(3*H*)-pyrimidinone;

6-(2-((*S*)-(3,3-difluorocyclobutyl)(hydroxy)methyl)thieno[2,3-*b*]pyridin-6-yl)-3-methyl-4(3*H*)-pyrimidinone;

6-(2-((*S*)-(3,3-difluorocyclobutyl)(hydroxy)methyl)thieno[2,3-*b*]pyridin-6-yl)-2-methyl-1(2*H*)-isoquinolinone;

6-(2-((*R*)-(3,3-difluorocyclobutyl)(hydroxy)methyl)thieno[2,3-*b*]pyridin-6-yl)-2-methyl-1(2*H*)-isoquinolinone;

(*S*)-(3,3-difluorocyclobutyl)(6-(2-methyl-1,3-benzoxazol-6-yl)thieno[2,3-*b*]pyridin-2-yl)methanol;

(*R*)-(3,3-difluorocyclobutyl)(6-(2-methyl-1,3-benzoxazol-6-yl)thieno[2,3-*b*]pyridin-2-yl)methanol;

(*S*)-(3,3-difluorocyclobutyl)(6-(6-quinoxalinyl)thieno[2,3-*b*]pyridin-2-yl)methanol;

(*R*)-(3,3-difluorocyclobutyl)(6-(6-quinoxalinyl)thieno[2,3-*b*]pyridin-2-yl)methanol;

(*S*)-(3,3-difluorocyclobutyl)(6-(2-ethyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)methanol;

(*R*)-(3,3-difluorocyclobutyl)(6-(2-ethyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)methanol;

(1*S*)-1-(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)-1-benzothiophen-2-yl)-1-butanol;

(1*R*)-1-(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)-1-benzothiophen-2-yl)-1-butanol;

(*S*)-(3,3-difluorocyclobutyl)(6-(2-methylimidazo[1,2-*a*]pyridin-7-yl)thieno[2,3-*b*]pyridin-2-yl)methanol;

(*R*)-(3,3-difluorocyclobutyl)(6-(2-methylimidazo[1,2-*a*]pyridin-7-yl)thieno[2,3-*b*]pyridin-2-yl)methanol;

(*S*)-(3,3-difluorocyclobutyl)(6-(2-(2-propanyl)-2*H*-indazol-5-yl)thieno[2,3-*b*]pyridin-2-yl)methanol;

(*R*)-(3,3-difluorocyclobutyl)(6-(2-(2-propanyl)-2*H*-indazol-5-yl)thieno[2,3-*b*]pyridin-2-yl)methanol;

(*S*)-(3,3-difluorocyclobutyl)(6-(5-pyrimidinyl)thieno[2,3-*b*]pyridin-2-yl)methanol;

(*R*)-(3,3-difluorocyclobutyl)(6-(5-pyrimidinyl)thieno[2,3-*b*]pyridin-2-yl)methanol;

(*S*)-cyclopentyl(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)-1-benzothiophen-2-yl)methanol;

(*R*)-cyclopentyl(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)-1-benzothiophen-2-yl)methanol;

(1*S*)-3-methoxy-1-(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)-1-benzothiophen-2-yl)-1-propanol;

(1*R*)-3-methoxy-1-(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)-1-benzothiophen-2-yl)-1-propanol;

(1*S*)-4,4,4-trifluoro-1-(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)-1-benzothiophen-2-yl)-1-butanol;

(1*R*)-4,4,4-trifluoro-1-(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)-1-benzothiophen-2-yl)-1-butanol;

(*S*)-(3,3-difluorocyclobutyl)(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)-1-benzothiophen-2-yl)methanol;

(*R*)-(3,3-difluorocyclobutyl)(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)-1-benzothiophen-2-yl)methanol;

(*R*)-(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)((3*R*)-1-methyl-3-pyrrolidinyl)methanol;

(*R*)-(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)((3*S*)-1-methyl-3-pyrrolidinyl)methanol;

(*S*)-(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)((3*R*)-1-methyl-3-pyrrolidinyl)methanol;

(*S*)-(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)((3*S*)-1-methyl-3-pyrrolidinyl)methanol;

(*R*)-((3*R*)-1-methyl-3-piperidinyl)(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)methanol;

(*R*)-((3*S*)-1-methyl-3-piperidinyl)(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)methanol;

(*S*)-((3*R*)-1-methyl-3-piperidinyl)(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)methanol;

(*S*)-((3*S*)-1-methyl-3-piperidinyl)(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)methanol;

(*S*)-(3,3-difluorocyclobutyl)(6-(2-(2-propanyl)-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)methanol;

(*R*)-(3,3-difluorocyclobutyl)(6-(2-(2-propanyl)-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)methanol;

(*S*)-(3,3-difluorocyclobutyl)(6-(1-(2-propanyl)-1*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)methanol;

(*R*)-(3,3-difluorocyclobutyl)(6-(1-(2-propanyl)-1*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)methanol;

(*R*)-(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)(tetrahydro-2*H*-pyran-4-yl)methan-d-ol;

(*S*)-(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)(tetrahydro-2*H*-pyran-4-yl)methan-d-ol;

(*R*)-(3-amino-6-(5-pyrimidinyl)thieno[2,3-*b*]pyridin-2-yl)(3,3-difluorocyclobutyl)methanol;

(*S*)-(3-amino-6-(5-pyrimidinyl)thieno[2,3-*b*]pyridin-2-yl)(3,3-difluorocyclobutyl)methanol;

2-(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-b]pyridin-2-yl)spiro[3.3]heptan-2-ol;

3,3-dimethyl-1-(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)cyclobutanol;

6,6-difluoro-2-(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)spiro[3.3]heptan-2-ol;

6-(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)-2-oxaspiro[3.3]heptan-6-ol;

cis-1-(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)-3-(trifluoromethyl)cyclobutanol;

cis-3-(difluoromethyl)-1-(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)cyclobutanol;

cis-3-methoxy-1-(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)cyclobutanol;

(*S*)-(3,3-difluorocyclobutyl)(5-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)[1,3]thiazolo[5,4-*b*]pyridin-2-yl)methanol;

(*R*)-(3,3-difluorocyclobutyl)(5-(2-methyl-2H-pyrazolo[3,4-*b*]pyridin-5-yl)[1,3]thiazolo[5,4-*b*]pyridin-2-yl)methanol;

1-(6-(2-ethyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)-3,3-difluorocyclobutanol;

(*S*)-(3,3-difluorocyclobutyl)(5-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[3,2-*b*]pyridin-2-yl)methanol;

(*R*)-(3,3-difluorocyclobutyl)(5-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[3,2-*b*]pyridin-2-yl)methanol;

3,3-difluoro-1-(6-(3-methyl-3*H*-imidazo[4,5-*b*]pyridin-6-yl)thieno[2,3-*b*]pyridin-2-yl)cyclobutanol;

3,3-difluoro-1-(6-(2-methyl[1,3]oxazolo[4,5-*b*]pyridin-6-yl)thieno[2,3-*b*]pyridin-2-yl)cyclobutanol;

3,3-difluoro-1-(6-(2-methyl-3*H*-imidazo[4,5-*b*]pyridin-6-yl)thieno[2,3-*b*]pyridin-2-yl)cyclobutanol;

3,3-difluoro-1-(6-(1*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)cyclobutanol;

3,3-difluoro-1-(6-(2-methylimidazo[1,2-*a*]pyridin-6-yl)thieno[2,3-*b*]pyridin-2-yl)cyclobutanol;

1-(6-(2-amino-5-pyrimidinyl)thieno[2,3-*b*]pyridin-2-yl)-3,3-difluorocyclobutanol;

(*S*)-(3,3-difluorocyclobutyl)(5-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)[1,3]thiazolo[4,5-*b*]pyridin-2-yl)methanol;

(*R*)-(3,3-difluorocyclobutyl)(5-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)[1,3]thiazolo[4,5-*b*]pyridin-2-yl)methanol;

3,3-difluoro-1-(6-(2-methyl-1,3-benzoxazol-6-yl)thieno[2,3-*b*]pyridin-2-yl)cyclobutanol;

trans-3-fluoro-1-(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)cyclobutanol;

(*R*)-(3,3-difluorocyclobutyl)(2-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*d*]pyrimidin-6-yl)methanol;

(*S*)-(3,3-difluorocyclobutyl)(2-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*d*]pyrimidin-6-yl)methanol;

(*S*)-(3-chloro-6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)(3,3-difluorocyclobutyl)methanol;

(*R*)-(3-chloro-6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)(3,3-difluorocyclobutyl)methanol;

3,3-difluoro-1-(6-(3*H*-imidazo[4,5-*b*]pyridin-6-yl)thieno[2,3-*b*]pyridin-2-yl)cyclobutanol;

3,3-difluoro-1-(6-(1*H*-indazol-5-yl)thieno[2,3-*b*]pyridin-2-yl)cyclobutanol;

(*R*)-(3,3-difluorocyclobutyl)(5-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)methanol;

(*S*)-(3,3-difluorocyclobutyl)(5-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)methanol;

(*S*)-(3,3-difluorocyclobutyl)(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[3,2-*b*]pyridin-2-yl)methanol;

(*R*)-(3,3-difluorocyclobutyl)(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[3,2-*b*]pyridin-2-yl)methanol;

3,3-difluoro-1-(6-(2-(methylamino)-5-pyrimidinyl)thieno[2,3-*b*]pyridin-2-yl)cyclobutanol;

(*R*)-(3,3-difluorocyclobutyl)(6-(2-methyl-2H-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)methan-d-ol;

(*S*)-(3,3-difluorocyclobutyl)(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)methan-d-ol;

3,3-difluoro-1-(6-(2-methylimidazo[1,2-*a*]pyridin-7-yl)thieno[2,3-*b*]pyridin-2-yl)cyclobutanol;

3,3-difluoro-1-(6-(2-methylimidazo[1,2-*a*]pyrimidin-6-yl)thieno[2,3-*b*]pyridin-2-yl)cyclobutanol;

(2*R*)-2-(3,3-difluorocyclobutyl)-2-(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)ethanol;

(2*S*)-2-(3,3-difluorocyclobutyl)-2-(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)ethanol;

3,3-difluoro-1-(6-(5-pyrimidinyl)thieno[2,3-*b*]pyridin-2-yl)cyclobutanol;

3,3-difluoro-1-(6-(pyrido[2,3-*b*]pyrazin-7-yl)thieno[2,3-*b*]pyridin-2-yl)cyclobutanol;

(*S*)-(3,3-difluorocyclobutyl)(2-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)-7-quinolinyl)methanol;

(*R*)-(3,3-difluorocyclobutyl)(2-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)-7-quinolinyl)methanol;

3,3-difluoro-1-(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)-1-benzothiophen-2-yl)cyclobutanol;

3,3-difluoro-1-(6-(2-methyl-2*H*-indazol-5-yl)thieno[2,3-*b*]pyridin-2-yl)cyclobutanol;

1-(6-(1,2-benzoxazol-5-yl)thieno[2,3-*b*]pyridin-2-yl)-3,3-difluorocyclobutanol;

3,3-difluoro-1-(6-(3-methyl-3*H*-[1,2,3]triazolo[4,5-*b*]pyridin-6-yl)thieno[2,3-*b*]pyridin-2-yl)cyclobutanol;

2-(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)spiro[3.5]nonan-2-ol;

2-(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)spiro[3.4]octan-2-ol;

3,3-difluoro-1-(6-(2-methylimidazo[1,2-*b*]pyridazin-7-yl)thieno[2,3-*b*]pyridin-2-yl)cyclobutanol;

3,3-difluoro-1-(6-(3*H*-[1,2,3]triazolo[4,5-*b*]pyridin-6-yl)thieno[2,3-*b*]pyridin-2-yl)cyclobutanol;

(*R*)-(3,3-difluorocyclobutyl)(6-(3-methyl-3*H*-[1,2,3]triazolo[4,5-*b*]pyridin-6-yl)thieno[2,3-*b*]pyridin-2-yl)methanol;

(*S*)-(3,3-difluorocyclobutyl)(6-(3-methyl-3*H*-[1,2,3]triazolo[4,5-*b*]pyridin-6-yl)thieno[2,3-*b*]pyridin-2-yl)methanol;

trans-6-(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)-1-oxaspiro[3.3]heptan-6-ol;

cis-6-(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)-1-oxaspiro[3.3]heptan-6-ol;

3,3-dimethyl-1-(2-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*d*]pyrimidin-6-yl)cyclobutanol;

cis-3-(methoxymethyl)-1-(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)cyclobutanol;

trans-3-methoxy-3-methyl-1-(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)cyclobutanol;

cis-3-methoxy-3-methyl-1-(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)cyclobutanol;

(*R*)-(3,3-difluorocyclobutyl)(3-methyl-6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)methanol;

(*S*)-(3,3-difluorocyclobutyl)(3-methyl-6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)methanol;

1-(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)cyclopropanol;

5-(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)spiro[2.3]hexan-5-ol;

cis-3-cyclopropyl-1-(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)cyclobutanol;

trans-3-hydroxy-1-methyl-3-(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)cyclobutanecarbonitrile;

cis-3-hydroxy-1-methyl-3-(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)cyclobutanecarbonitrile;

(1*S*,2*R*)-2-methyl-1-(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)cyclobutanol;

(1*R*,2*S*)-2-methyl-1-(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)cyclobutanol;

(1*S*)-2,2-dimethyl-1-(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)cyclobutanol;

(1*R*)-2,2-dimethyl-1-(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)cyclobutanol;

trans-3-methoxy-1-(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)-3-(trifluoromethyl)cyclobutanol;

cis-3-methoxy-1-(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)-3-(trifluoromethyl)cyclobutanol;

cis-1-(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)-3-(trifluoromethoxy)cyclobutanol;

3,3-dimethyl-1-(5-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)[1,3]thiazolo[5,4-*b*]pyridin-2-yl)cyclobutanol;

cis-1-(3-chloro-6-(2-methyl-2H-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)-3-methoxycyclobutanol;

(1*R*,2*R*)-2-methoxy-1-(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)cyclobutanol;

(1*R*,2*S*)-2-methoxy-1-(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)cyclobutanol;

(1*S*,2*R*)-2-methoxy-1-(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)cyclobutanol;

cis-1-(2-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*d*]pyrimidin-6-yl)-3-(trifluoromethyl)cyclobutanol;

(1*S*,2*S*)-2-methoxy-1-(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)cyclobutanol;

1-(3-chloro-6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)-3,3-dimethylcyclobutanol;

cis-1-(5-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)[1,3]thiazolo[5,4-*b*]pyridin-2-yl)-3-(trifluoromethyl)cyclobutanol;

(*S*)-(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)((*cis*)-3-(trifluoromethyl)cyclobutyl)methanol;

(*R*)-(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)((*cis*)-3-(trifluoromethyl)cyclobutyl)methanol;

(*S*)-(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)((*trans*)-3-(trifluoromethyl)cyclobutyl)methanol;

(*R*)-(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)((*trans*)-3-(trifluoromethyl)cyclobutyl)methanol;

cis-1-(3-chloro-6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)-3-(trifluoromethyl)cyclobutanol;

(*R*)-((1*R*)-2,2-difluorocyclopropyl)(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)methanol;

(*S*)-((1*S*)-2,2-difluorocyclopropyl)(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)methanol;

(*S*)-((1*R*)-2,2-difluorocyclopropyl)(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)methanol;

(*R*)-((1*S*)-2,2-difluorocyclopropyl)(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)methanol;

(*R*)-(3,3-difluoro-1-methylcyclobutyl)(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)methanol;

(*S*)-(3,3-difluoro-1-methylcyclobutyl)(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)methanol;

(*R*)-bicyclo[1.1.1]pentan-1-yl(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)methanol;

(*S*)-bicyclo[1.1.1]pentan-1-yl(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)methanol;

(*S*)-((*cis*)-3-methoxycyclobutyl)(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)methanol;

cis-3-(difluoromethyl)-1-(6-(3-methyl-3*H*-[1,2,3]triazolo[4,5-*b*]pyridin-6-yl)thieno[2,3-*b*]pyridin-2-yl)cyclobutanol;

(*R*)-((*cis*)-3-methoxycyclobutyl)(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)methanol;

(*S*)-((*trans*)-3-methoxycyclobutyl)(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)methanol;

(*R*)-((*trans*)-3-methoxycyclobutyl)(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)methanol;

3,3-dimethyl-1-(2-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)-7-quinolinyl)cyclobutanol;

3,3-difluoro-1-(3-methyl-6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)cyclobutanol;

cis-1-(3-methyl-6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)-3-(trifluoromethyl)cyclobutanol;

cis-1-(6-(3-methyl-3*H*-[1,2,3]triazolo[4,5-*b*]pyridin-6-yl)thieno[2,3-*b*]pyridin-2-yl)-3-(trifluoromethyl)cyclobutanol;

cis-3-(difluoromethyl)-1-(2-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*d*]pyrimidin-6-yl)cyclobutanol;

(*R*)-(2-(3-methyl-3*H*-[1,2,3]triazolo[4,5-*b*]pyridin-6-yl)-7-quinolinyl)(tetrahydro-2*H*-pyran-4-yl)methanol;

(*S*)-(2-(3-methyl-3*H*-[1,2,3]triazolo[4,5-*b*]pyridin-6-yl)-7-quinolinyl)(tetrahydro-2*H*-pyran-4-yl)methanol;

(*R*)-(2-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)-7-quinolinyl)(tetrahydro-2*H*-pyran-4-yl)methanol;

(*S*)-(2-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)-7-quinolinyl)(tetrahydro-2*H*-pyran-4-yl)methanol;

cis-3-(difluoromethyl)-1-(5-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)[1,3]thiazolo[5,4-*b*]pyridin-2-yl)cyclobutanol;

cis-3-(difluoromethyl)-1-(5-(3-methyl-3*H*-[1,2,3]triazolo[4,5-*b*]pyridin-6-yl)[1,3]thiazolo[5,4-*b*]pyridin-2-yl)cyclobutanol;

(*R*)-(3-methyl-6-(3-methyl-3*H*-[1,2,3]triazolo[4,5-*b*]pyridin-6-yl)thieno[2,3-*b*]pyridin-2-yl)(tetrahydro-2*H*-pyran-4-yl)methanol;

(*S*)-(3-methyl-6-(3-methyl-3*H*-[1,2,3]triazolo[4,5-*b*]pyridin-6-yl)thieno[2,3-*b*]pyridin-2-yl)(tetrahydro-2*H*-pyran-4-yl)methanol;

(*R*)-(3-methyl-6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)(tetrahydro-2*H*-pyran-4-yl)methanol;

(*S*)-(3-methyl-6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)(tetrahydro-2*H*-pyran-4-yl)methanol;

cis-3-(difluoromethyl)-1-(2-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)-7-quinolinyl)cyclobutanol;

(*R*)-(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)(3-(trifluoromethyl)bicyclo[1.1.1]pentan-1-yl)methanol;

(*S*)-(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)(3-(trifluoromethyl)bicyclo[1.1.1]pentan-1-yl)methanol;

cis-3-fluoro-1-(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)cyclobutanol;

cis-3-(difluoromethyl)-1-(3-methyl-6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)cyclobutanol;

cis-3-(difluoromethyl)-1-(2-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)-6-quinolinyl)cyclobutanol;

cis-3-(difluoromethyl)-1-(5-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[3,2-*b*]pyridin-2-yl)cyclobutanol;

cis-3-(difluoromethyl)-1-(2-(3-methyl-3*H*-[1,2,3]triazolo[4,5-*b*]pyridin-6-yl)thieno[2,3-*d*]pyrimidin-6-yl)cyclobutanol;

cis-1-(5-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[3,2-*b*]pyridin-2-yl)-3-(trifluoromethyl)cyclobutanol;

(*S*)-(3,3-difluorocyclobutyl)(2-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)-6-quinolinyl)methanol;

(*R*)-(3,3-difluorocyclobutyl)(2-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)-6-quinolinyl)methanol;

cis-3-(difluoromethyl)-1-(6-(2-ethyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)cyclobutanol;

(*trans*)-1,1-difluoro-5-(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)spiro[2.3]hexan-5-ol;

(*cis*)-1,1-difluoro-5-(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)spiro[2.3]hexan-5-ol;

cis-3-(difluoromethyl)-1-(2-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[3,2-*d*]pyrimidin-6-yl)cyclobutanol;

cis-3-(difluoromethyl)-1-(5-methyl-2-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*d*]pyrimidin-6-yl)cyclobutanol;

trans-3-hydroxy-1-methyl-3-(5-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)[1,3]thiazolo[5,4-*b*]pyridin-2-yl)cyclobutanecarbonitrile;

cis-3-hydroxy-1-methyl-3-(5-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)[1,3]thiazolo[5,4-*b*]pyridin-2-yl)cyclobutanecarbonitrile;

cis-3-(difluoromethyl)-1-(6-(2-methylimidazo[1,2-*b*]pyridazin-7-yl)thieno[2,3-*b*]pyridin-2-yl)cyclobutanol;

cis-3-(difluoromethyl)-1-(6-(2-methyl-3*H*-imidazo[4,5-*b*]pyridin-6-yl)thieno[2,3-*b*]pyridin-2-yl)cyclobutanol;

(*R*)-(3,3-difluorocyclobutyl)(3-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyrazin-6-yl)methanol;

(*S*)-(3,3-difluorocyclobutyl)(3-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyrazin-6-yl)methanol;

(2*S*)-2-(3,3-difluorocyclobutyl)-2-(3-methyl-6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)ethanol;

(2*R*)-2-(3,3-difluorocyclobutyl)-2-(3-methyl-6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)ethanol;

cis-3-methoxy-1-(2-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*d*]pyrimidin-6-yl)cyclobutanol;

cis-1-(2-(3-methyl-3*H*-[1,2,3]triazolo[4,5-*b*]pyridin-6-yl)thieno[2,3-*d*]pyrimidin-6-yl)-3-(trifluoromethyl)cyclobutanol;

cis-3-hydroxy-1-methyl-3-(2-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*d*]pyrimidin-6-yl)cyclobutanecarbonitrile;

trans-3-hydroxy-1-methyl-3-(2-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*d*]pyrimidin-6-yl)cyclobutanecarbonitrile;

cis-3-(difluoromethyl)-1-(6-(2-methylimidazo[1,2-a]pyrimidin-6-yl)thieno[2,3-*b*]pyridin-2-yl)cyclobutanol;

trans-3-hydroxy-1-methyl-3-(2-(3-methyl-3*H*-[1,2,3]triazolo[4,5-*b*]pyridin-6-yl)thieno[2,3-*d*]pyrimidin-6-yl)cyclobutanecarbonitrile;

cis-3-hydroxy-1-methyl-3-(2-(3-methyl-3*H*-[1,2,3]triazolo[4,5-*b*]pyridin-6-yl)thieno[2,3-*d*]pyrimidin-6-yl)cyclobutanecarbonitrile;

cis-3-cyclopropyl-1-(2-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*d*]pyrimidin-6-yl)cyclobutanol;

cis-1-(2-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*d*]pyrimidin-6-yl)-3-(trifluoromethoxy)cyclobutanol;

cis-1-(6-(3-methyl-3*H*-[1,2,3]triazolo[4,5-*b*]pyridin-6-yl)thieno[2,3-*b*]pyridin-2-yl)-3-(trifluoromethoxy)cyclobutanol;

cis-3-methoxy-3-methyl-1-(6-(3-methyl-3*H*-[1,2,3]triazolo[4,5-*b*]pyridin-6-yl)thieno[2,3-*b*]pyridin-2-yl)cyclobutanol;

cis-3-(difluoromethyl)-1-(6-(3*H*-[1,2,3]triazolo[4,5-*b*]pyridin-6-yl)thieno[2,3-*b*]pyridin-2-yl)cyclobutanol;

trans-3-hydroxy-1-methyl-3-(6-(3-methyl-3*H*-[1,2,3]triazolo[4,5-*b*]pyridin-6-yl)thieno[2,3-*b*]pyridin-2-yl)cyclobutanecarbonitrile;

cis-1-(5-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)[1,3]thiazolo[5,4-*b*]pyridin-2-yl)-3-(trifluoromethoxy)cyclobutanol;

trans-3-hydroxy-1-methyl-3-(5-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[3,2-*b*]pyridin-2-yl)cyclobutanecarbonitrile;

cis-3-hydroxy-1-methyl-3-(5-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[3,2-*b*]pyridin-2-yl)cyclobutanecarbonitrile;

5-(2-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*d*]pyrimidin-6-yl)spiro[2.3]hexan-5-ol;

5-(5-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)[1,3]thiazolo[5,4-*b*]pyridin-2-yl)spiro[2.3]hexan-5-ol;

(*R*)-((1*S*)-2,2-difluorocyclobutyl)(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)methanol;

(*S*)-((1*R*)-2,2-difluorocyclobutyl)(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)methanol;

(*R*)-((1*R*)-2,2-difluorocyclobutyl)(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)methanol;

(*S*)-((1*S*)-2,2-difluorocyclobutyl)(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)methanol;

cis-3-(difluoromethyl)-1-(5-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)[1,3]thiazolo[5,4-d]pyrimidin-2-yl)cyclobutanol;

cis-3-hydroxy-1-methyl-3-(6-(3-methyl-3*H*-[1,2,3]triazolo[4,5-*b*]pyridin-6-yl)thieno[2,3-*b*]pyridin-2-yl)cyclobutanecarbonitrile;

cis-1-(2-(3-methyl-3*H*-[1,2,3]triazolo[4,5-*b*]pyridin-6-yl)thieno[2,3-d]pyrimidin-6-yl)-3-(trifluoromethoxy)cyclobutanol;

cis-1-(5-(3-methyl-3*H*-[1,2,3]triazolo[4,5-*b*]pyridin-6-yl)[1,3]thiazolo[5,4-*b*]pyridin-2-yl)-3-(trifluoromethoxy)cyclobutanol;

trans-3-methoxy-1-(2-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*d*]pyrimidin-6-yl)-3-(trifluoromethyl)cyclobutanol;

cis-3-methoxy-1-(2-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*d*]pyrimidin-6-yl)-3-(trifluoromethyl)cyclobutanol;

trans-1,1-difluoro-5-(2-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*d*]pyrimidin-6-yl)spiro[2.3]hexan-5-ol;

cis-1,1-difluoro-5-(2-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*d*]pyrimidin-6-yl)spiro[2.3]hexan-5-ol;

trans-1,1-difluoro-5-(5-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)[1,3]thiazolo[5,4-*b*]pyridin-2-yl)spiro[2.3]hexan-5-ol;

cis-1,1-difluoro-5-(5-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)[1,3]thiazolo[5,4-*b*]pyridin-2-yl)spiro[2.3]hexan-5-ol;

6,6-difluoro-2-(2-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*d*]pyrimidin-6-yl)spiro[3.3]heptan-2-ol;

cis-1-(5-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[3,2-*b*]pyridin-2-yl)-3-(trifluoromethoxy)cyclobutanol;

trans-3-methoxy-3-methyl-1-(2-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*d*]pyrimidin-6-yl)cyclobutanol;

cis-3-methoxy-3-methyl-1-(2-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*d*]pyrimidin-6-yl)cyclobutanol;

cis-3-(methoxymethyl)-1-(2-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*d*]pyrimidin-6-yl)cyclobutanol;

cis-1-(2-(1-methyl-1*H*-pyrazol-4-yl)thieno[2,3-*d*]pyrimidin-6-yl)-3-(trifluoromethyl)cyclobutanol;

(*S*)-(3-amino-6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)(3,3-difluorocyclobutyl)methanol;

(*R*)-(3-amino-6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)(3,3-difluorocyclobutyl)methanol;

trans-3-methoxy-3-methyl-1-(2-(3-methyl-3*H*-[1,2,3]triazolo[4,5-*b*]pyridin-6-yl)thieno[2,3-*d*]pyrimidin-6-yl)cyclo*b*utanol;

cis-3-methoxy-3-methyl-1-(2-(3-methyl-3*H*-[1,2,3]triazolo[4,5-*b*]pyridin-6-yl)thieno[2,3-*d*]pyrimidin-6-yl)cyclobutanol;

cis-1-(2-(3-pyridinyl)thieno[2,3-*d*]pyrimidin-6-yl)-3-(trifluoromethyl)cyclobutanol;

cis-1-(2-(6-quinoxalinyl)thieno[2,3-*d*]pyrimidin-6-yl)-3-(trifluoromethyl)cyclobutanol;

cis-1-(2-(imidazo[1,2-a]pyrimidin-6-yl)thieno[2,3-*d*]pyrimidin-6-yl)-3-(trifluoromethyl)cyclobutanol;

trans-3-methoxy-3-methyl-1-(5-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)[1,3]thiazolo[5,4-*b*]pyridin-2-yl)cyclobutanol;

cis-3-methoxy-3-methyl-1-(5-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)[1,3]thiazolo[5,4-*b*]pyridin-2-yl)cyclobutanol;

trans-3-methoxy-3-methyl-1-(6-(3-methyl-3*H*-[1,2,3]triazolo[4,5-*b*]pyridin-6-yl)thieno[2,3-*b*]pyridin-2-yl)cyclobutanol;

cis-1-(2-(4-pyridazinyl)thieno[2,3-d]pyrimidin-6-yl)-3-(trifluoromethyl)cyclobutanol;

cis-3-methoxy-3-methyl-1-(5-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[3,2-*b*]pyridin-2-yl)cyclobutanol;

3-(6-(*cis*-1-hydroxy-3-(trifluoromethyl)cyclobutyl)thieno[2,3-*d*]pyrimidin-2-yl)-5,6-dihydro-7*H*-pyrrolo[3,4-*b*]pyridin-7-one;

cis-1-(2-([1,2,4]triazolo[4,3-*a*]pyrimidin-6-yl)thieno[2,3-*d*]pyrimidin-6-yl)-3-(trifluoromethyl)cyclobutanol;

(*R*)-(3,3-difluorocyclobutyl)(2-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyrazin-6-yl)methanol;

(*S*)-(3,3-difluorocyclobutyl)(2-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyrazin-6-yl)methanol;

trans-3-methyl-1-(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)-3-(trifluoromethyl)cyclobutanol;

cis-3-methyl-1-(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)-3-(trifluoromethyl)cyclobutanol;

cis-1-(2-(2-methyl-2*H*-[1,2,3]triazolo[4,5-*b*]pyridin-6-yl)thieno[2,3-*d*]pyrimidin-6-yl)-3-(trifluoromethyl)cyclobutanol;

cis-1-(2-(1-methyl-1*H*-[1,2,3]triazolo[4,5-*b*]pyridin-6-yl)thieno[2,3-*d*]pyrimidin-6-yl)-3-(trifluoromethyl)cyclobutanol;

cis-1-(2-(1-methyl-1*H*-imidazo[4,5-*b*]pyridin-6-yl)thieno[2,3-*d*]pyrimidin-6-yl)-3-(trifluoromethyl)cyclobutanol;

cis-1-(2-(1,8-naphthyridin-3-yl)thieno[2,3-*d*]pyrimidin-6-yl)-3-(trifluoromethyl)cyclobutanol;

trans-3-(difluoromethyl)-1-(5-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thiazolo[5,4-*b*]pyridin-2-yl)cyclobutanol;

trans-3-methoxy-1-(2-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*d*]pyrimidin-6-yl)cyclobutan-1-ol; or

cis-1-(2-([1,2,4]triazolo[1,5-*a*]pyrimidin-6-yl)thieno[2,3-*d*]pyrimidin-6-yl)-3-(trifluoromethyl)cyclobutan-1-ol; or

a pharmaceutically acceptable salt of any of the foregoing.

In one aspect, the disclosure refers to a pharmaceutical composition comprising the compound or salt as described herein or the compound as described herein, and a pharmaceutically acceptable excipient.

In one aspect, the disclosure refers to a compound or salt as described herein, the compound as described herein, or the pharmaceutical composition as described herein, for use as a medicament.

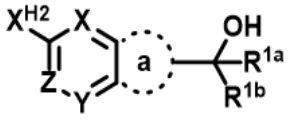
In one aspect, the disclosure refers to the use of a compound or salt as described herein, the compound as described herein, or the pharmaceutical composition as described herein, in the manufacture of a medicament for treating inflammatory bowel disease.

In one aspect, the disclosure refers to the use of a compound or salt as described herein or the compound as described herein, in the manufacture of a medicament for the treatment of a 15-PGDH mediated disease or disorder.

In one aspect, the disclosure refers to the use of a compound or salt as described herein, the compound as described herein, or the pharmaceutical composition as described herein in the manufacture of a medicament for treating intestinal, gastrointestinal, or bowel disorders in a subject in need thereof.

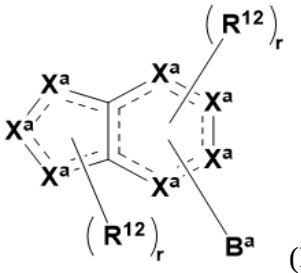
In one aspect, the disclosure refers to a method of manufacturing the compound or salt as described herein, the method comprising:

performing a Suzuki coupling between a compound of Formula (A-int-b)



(A-int-b) (A-int-b)

and a compound of Formula (R2-B):



(R2-B);

where

X^{H2} is a -Br or -Cl;

B^a is a boronic acid group or a boronic ester group;

"⁻⁻⁻⁻" indicates a double bond or single bond may be present;

each instance of X^a independently is nitrogen, oxygen, or carbon;

each instance of r, where present, is an integer selected from 0, 1, 2, 3, 4, or 5, wherein where two instances of r occur on the same R^2 group, the total of both r values combined does not exceed 5;

each instance of R^{12}, when present and attached to an N ring member, independently is C_{1-6}alkyl, C_{1-6}haloalkyl, C_{1-6}alkylene-OH, or C_{1-6}alkylene-O-C_{1-6}alkyl; and

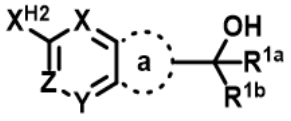
each instance of R^{12}, when present and attached to a C ring member, independently is -OH, oxo, -N(R^b)$_2$, C_{1-6} alkyl, C_{1-6} haloalkyl, C_{1-6} alkoxy, C_{1-6}alkylene-OH, or C_{1-6}alkylene-O-C_{1-6}alkyl;

where each instance of R^b, where present, independently is -H or C_{1-6} alkyl; or, alternatively, two R^b substituents together form a heterocyclyl having 3 to 6 ring members; and

wherein, when R^b is C_{1-6} alkyl or, alternatively, two R^b substituents together form a heterocyclyl having 3 to 6 ring members, then R^b may be unsubstituted or substituted with one or more substituents, each of which independently is -F, -Cl, -OH, or C_{1-3} alkoxy.

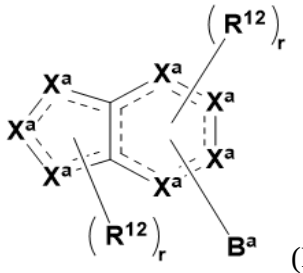
In one aspect, the disclosure refers to a compound or salt as described herein, made by a method comprising:

performing a Suzuki coupling between a compound of Formula (A-int-b)



(A-int-b) (A-int-b)

and a compound of Formula (R2-B):



(R2-B);

where

X^H is a -Br or -Cl;

B^a is a boronic acid group or a boronic ester group;

"⁻⁻⁻⁻" indicates a double bond or single bond may be present;

each instance of X^a independently is nitrogen, oxygen, or carbon;

each instance of r, where present, is an integer selected from 0, 1, 2, 3, 4, or 5, wherein where two instances of r occur on the same R^2 group, the total of both r values combined does not exceed 5;

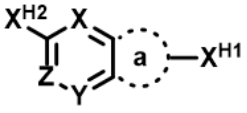
each instance of R^{12}, when present and attached to an N ring member, independently is C_{1-6}alkyl, C_{1-6}haloalkyl, C_{1-6}alkylene-OH, or C_{1-6}alkylene-O-C_{1-6}alkyl; and

each instance of R^{12}, when present and attached to a C ring member, independently is -OH, oxo, -N(R^b)$_2$, C_{1-6} alkyl, C_{1-6} haloalkyl, C_{1-6} alkoxy, C_{1-6}alkylene-OH, or C_{1-6}alkylene-O-C_{1-6} alkyl;

where each instance of R^b, where present, independently is -H or C_{1-6} alkyl; or, alternatively, two R^b substituents together form a heterocyclyl having 3 to 6 ring members; and

wherein, when R^b is C_{1-6} alkyl or, alternatively, two R^b substituents together form a heterocyclyl having 3 to 6 ring members, then R^b may be unsubstituted or substituted with one or more substituents, each of which independently is -F, -Cl, -OH, or C_{1-3} alkoxy.

In one aspect, the disclosure refers to a method of manufacturing the compound or salt as described herein, the method comprising using a compound of Formula (A-int-a) as an intermediate:



(A-int-a)

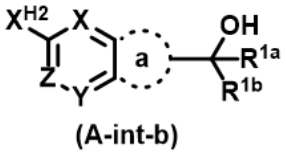
or a pharmaceutically acceptable salt of said compound;

where

X^{H1} is -Cl, -Br, or -I; and

X^{H2} is -Cl, -Br, -OTf, -OTs, or -OMs.

In one aspect, the disclosure refers to a method of manufacturing the compound or salt as described herein, the method comprising using a compound of Formula (A-int-b) as an intermediate:



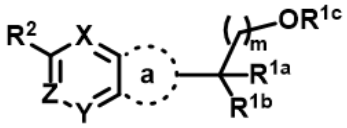
(A-int-b) (A-int-b)

where X^{H2} is -Cl, -Br, -OTf, -OTs, or -OMs.

[0023] Further aspects and advantages will be apparent to those of ordinary skill in the art from a review of the following detailed description. The description hereafter includes specific cases, embodiments, and examples with the understanding that the disclosure is illustrative and is not intended to limit the embodiments of the present disclosure to the specific cases, embodiments, and examples described herein. To the contrary, reference to embodiments of the present disclosure is intended to cover alternatives, modifications, and equivalents as may be included within the spirit and scope of the embodiments of the present disclosure as defined by the appended claims.

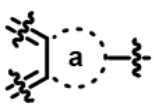
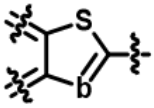
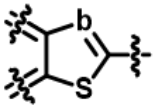
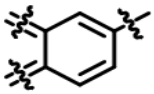
What is claimed is:

1. A compound of Formula (A)



(A)

or a pharmaceutically acceptable salt of said compound;

wherein  is  (i),  (ii), or  (iii);

m is 0 or 1;

X is N or CH;

Y is N or C-R^3;

Z is N or C-R^5;

b is N or C-R^4;

R^{1a} is -H, deuterium, C_{1-6} alkyl, or C_{1-6} haloalkyl;

wherein, when R^{1a} is C_{1-6} alkyl or C_{1-6} haloalkyl, then R^{1a} may be unsubstituted or substituted with one or more substituents, each of which independently is halogen, -OH, -$N(R^b)_2$, C_{1-3} alkyl, or C_{1-3} alkoxy;

R^{1b} is -H, C_{1-6} alkyl, C_{1-6} haloalkyl, C_{1-6} heteroalkyl, -(C_{1-6} alkylene)-O-(C_{1-6} alkyl), C_{3-10} cycloalkyl, or heterocyclyl having 3 to 10 ring members;

wherein, when R^{1b} is C_{1-6} alkyl, C_{1-6} haloalkyl, C_{1-6} heteroalkyl, -(C_{1-6} alkylene)-O-(C_{1-6} alkyl), C_{3-10} cycloalkyl, or heterocyclyl having 3 to 10 ring members, then R^{1b} may be unsubstituted or substituted with one or more substituents, each of which independently is halogen, -OH, -$N(R^b)_2$, C_{1-3} alkyl, or C_{1-3} alkoxy; wherein each of the C_{1-3} alkyl and C_{1-3} alkoxy may be unsubstituted or substituted with 1 to 6 -F groups;

or, alternatively, R^{1a} and R^{1b} together form a C_{3-10} cycloalkyl, C_{3-10} cycloalkenyl, or heterocyclyl having 3 to 10 ring members;

wherein the R^{1a} and R^{1b} cycle may be unsubstituted or substituted with one or more substituents, each of which independently is halogen, -OH, oxo, -$N(R^b)_2$, C_{1-3} alkyl, C_{1-3}alkoxy, -CN, C_{1-6} heteroalkyl, C_{3-10} cycloalkyl, or heterocyclyl having 3 to 10 ring members; wherein each of the C_{1-3} alkyl and C_{1-3} alkoxy may be unsubstituted or substituted with 1 to 9 halogen groups or C_{1-3} alkoxy;

R^{1c} is -H, C_{1-6} alkyl, or C_{3-6} cycloalkyl;

wherein, when R^{1c} is C_{1-6} alkyl or C_{3-6} cycloalkyl, then R^{1c} may be unsubstituted or substituted with one or more substituents, each of which independently is halogen, -OH, $-N(R^b)_2$, C_{1-3} alkyl, C_{1-3} alkoxy, or C_{1-6} heteroalkyl;

R^2 is C_{3-20} cycloalkyl, C_{3-20} cycloalkenyl, C_{6-18} aryl, heteroaryl having 5 to 20 ring members, or heterocyclyl having 3 to 20 ring members;

wherein R^2 may be unsubstituted or substituted with one or more substituents, each of which independently is halogen, -OH, oxo, $-N(R^b)_2$, C_{1-6} alkyl, C_{1-6} haloalkyl, C_{1-6} alkoxy, C_{1-6}alkylene-OH, C_{1-6}alkylene-O-C_{1-6}alkyl, or C_{1-6} heteroalkyl;

R^3 is -H, C_{1-6} alkyl, C_{1-6} haloalkyl, C_{3-6} cycloalkyl, amino, C_{1-4}alkyl-amino, di-C_{1-4}alkyl-amino, C_{6-10} aryl, heteroaryl having 5 to 10 ring members, or heterocyclyl having 5 to 10 ring members;

wherein, when R^3 is C_{1-6} alkyl, C_{1-6} haloalkyl, C_{3-6} cycloalkyl, C_{1-4}alkyl-amino, di-C_{1-4}alkyl-amino, C_{6-10} aryl, heteroaryl having 5 to 10 ring members, or heterocyclyl having 5 to 10 ring members, then R^3 may be unsubstituted or substituted with one or more substituents, each of which independently is halogen, -OH, oxo, $-N(R^b)_2$, C_{1-3} alkyl, C_{1-3} haloalkyl, C_{1-3} alkoxy, C_{1-3} alkylene-C_{1-3} alkoxy, C_{1-6} heteroalkyl, or two R^3 substituents together form a C_{3-6} carbocyclyl or a heterocyclyl having 3 to 6 ring members;

R^4 is -H, C_{1-3} alkyl, C_{1-3} haloalkyl, -CN, halogen, or $-N(R^a)_2$ where each instance of R^a, where present, independently is -H, C_{1-6} alkyl, or $-C(O)C_{1-6}$ alkyl; or, alternatively, two R^a substituents together form a heterocyclyl having 3 to 6 ring members;

wherein R^a may be unsubstituted or substituted with one or more substituents, each of which independently is -F, -Cl, -OH, or C_{1-3} alkoxy;

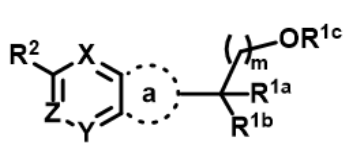
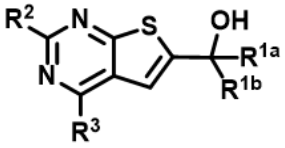
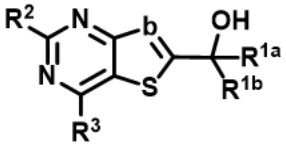
R^5 is -H, C_{1-6} alkyl, C_{3-6} cycloalkyl, C_{1-6} haloalkyl, or C_{1-6} heteroalkyl;

wherein, when R^5 is C_{1-6} alkyl, C_{3-6} cycloalkyl, C_{1-6} haloalkyl, or C_{1-6} heteroalkyl, then R^5 may be unsubstituted or substituted one or more substituents, each of which independently is halogen, -OH, C_{1-3} alkyl, or C_{1-3} alkoxy;

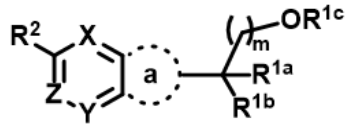
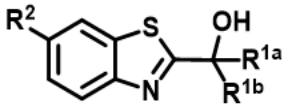
where each instance of R^b, where present, independently is -H or C_{1-6} alkyl; or, alternatively, two R^b substituents together form a heterocyclyl having 3 to 6 ring members; and

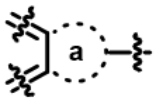
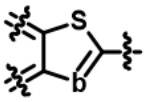
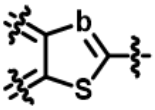
wherein, when R^b is C_{1-6} alkyl or, alternatively, two R^b substituents together form a heterocyclyl having 3 to 6 ring members, then R^b may be unsubstituted or substituted with one or more substituents, each of which independently is -F, -Cl, -OH, or C_{1-3} alkoxy;

provided that:

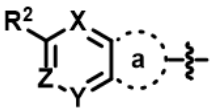
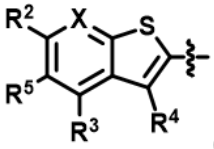
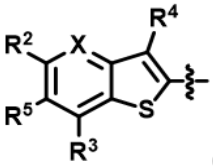
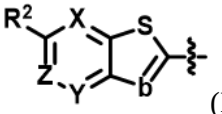
a) if  (A) is  or ,

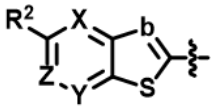
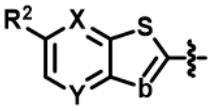
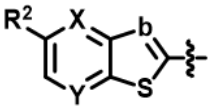
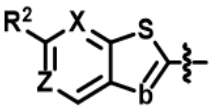
then R^3 is not unsubstituted or substituted morpholinyl; and

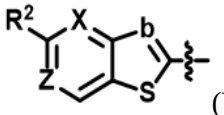
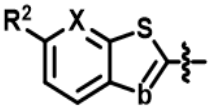
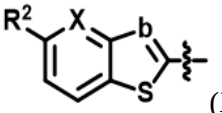
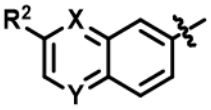
b) if  (A) is  then R^{1a} and R^{1b} are not both methyl, R^{1a} and R^{1b} are not both $-CF_3$, R^{1a} is not $-CF_3$ when R^{1b} is methyl, R^{1b} is not $-CF_3$ when R^{1a} is methyl, and R^{1a} and R^{1b} together do not provide unsubstituted or substituted piperdinyl.

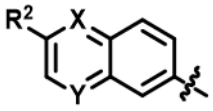
2. The compound or salt of claim 1, wherein  is  (i) or .

3. The compound or salt of claim 1, wherein

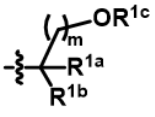
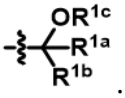
 is  (I),  (II),  (III),

 (IV),  (V),  (VI),  (VII),

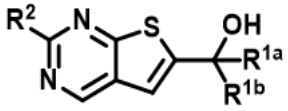
 (VIII),  (IX),  (X),  (XI), or

 (XII).

4. The compound or salt of any one of claims 1 to 3, wherein

 is .

5. The compound or salt of any one of claims 1 to 4, wherein the compound of Formula (A) is a compound of Formula (III-2)



(III-2).

6. The compound or salt of any one of claims 1 to 5, wherein R^{1a} is -H, unsubstituted or substituted C_{1-3}alkyl, or unsubstituted or substituted C_{1-3}haloalkyl.

7. The compound or salt of any one of claims 1 to 6, wherein, when R^{1a} is substituted, each R^{1a} substituent independently is -F, -OH, or C_{1-3}alkoxy.

8. The compound or salt of any one of claims 1 to 6, wherein R^{1a} is -H.

9. The compound or salt of any one of claims 1 to 8, wherein R^{1b} is -H, unsubstituted or substituted C_{1-3} alkyl, unsubstituted or substituted C_{1-3} haloalkyl, unsubstituted or substituted C_{3-6} cycloalkyl, or unsubstituted or substituted heterocyclyl having 3- to 6-ring members.

10. The compound or salt of any one of claims 1 to 9, wherein R^{1b} is an unsubstituted or substituted cycloalkyl spiro ring system or an unsubstituted or substituted heterocyclyl spiro ring system.

11. The compound or salt of any one of claims 1 to 10, wherein R^{1b} is substituted with 1 or 2 substituents.

12. The compound or salt of any one of claims 1 to 11, wherein, when R^{1b} is substituted, each R^{1b} substituent independently is -F, -OH, methyl, or -OMe.

13. The compound or salt of any one of claims 1 to 11, wherein R^{1b} is unsubstituted.

14. The compound or salt of any one of claims 1 to 5, wherein R^{1a} and R^{1b} together form an unsubstituted or substituted C_{3-10} cycloalkyl or an unsubstituted or substituted 3 to 10 membered heterocyclyl.

15. The compound or salt of any one of claims 1 to 5 and 14 , wherein, when R^{1a} and R^{1b} together form an unsubstituted or substituted heterocyclyl, the heterocyclyl includes 1, 2, or 3 heteroatom ring members, each of which independently is nitrogen, oxygen, or $-S(O)_x-$, where x is 0, 1, or 2.

16. The compound or salt of any one of claims 1 to 5 and 14-15, wherein R^{1a} and R^{1b} together form an unsubstituted or substituted C_{3-10} cycloalkyl.

17. The compound or salt of any one of claims 1 to 5 and 14-16, wherein R^{1a} and R^{1b} together form a spiro ring system.

18. The compound or salt of any one of claims 1 to 5 and 14-17, wherein R^{1a} and R^{1b} together form a bicyclic ring system.

19. The compound or salt of any one of claims 1 to 5 and 14-18, wherein R^{1a} and R^{1b} together form a cycle that is substituted with 1, 2, or 3 substituents.

20. The compound or salt of any one of claims 1 to 5 and 14-19, wherein R^{1a} and R^{1b} together form a cycle that is substituted and each substituent of the cycle independently is halogen, -OH, oxo, $-N(R^b)_2$, C_{1-3} alkyl, or C_{1-3}alkoxy, wherein each of the C_{1-3} alkyl and C_{1-3} alkoxy may be unsubstituted or substituted with 1 to 6 halogen groups or C_{1-3} alkoxy.

21. The compound or salt of any one of claims 1 to 5 and 14-20, wherein R^{1a} and R^{1b} together form a cycle that is substituted with one or more substituents and each substituent of the cycle independently is -F, -OH, oxo, methyl, methoxy, or $-OCF_3$.

22. The compound or salt of any one of claims 1 to 5 and 14-18, wherein R^{1a} and R^{1b} together form a cycle that is unsubstituted.

23. The compound or salt of any one of claims 1 to 22, wherein R^{1c} is -H.

24. The compound or salt of any one of claims 1 to 23, wherein R^2 is unsubstituted or substituted C_{3-6}cycloalkyl, unsubstituted or substituted C_{6-10}aryl, unsubstituted or substituted heteroaryl, or unsubstituted or substituted heterocyclyl.

25. The compound or salt of any one of claims 1 to 24, wherein R^2 is unsubstituted or substituted heteroaryl or unsubstituted or substituted heterocyclyl and the R^2 heteroaryl or heterocyclyl includes 1, 2, 3, or 4 heteroatom ring members.

26. The compound or salt of any one of claims 1 to 25, wherein R^2 is unsubstituted or substituted heteroaryl or unsubstituted or substituted heterocyclyl and each ring member heteroatom of the R^2 ring independently is nitrogen, oxygen, or $-S(O)_y-$, where y is 0, 1, or 2.

27. The compound or salt of any one of claims 1 to 26, wherein R^2 is unsubstituted or substituted fused bicyclic heteroaryl.

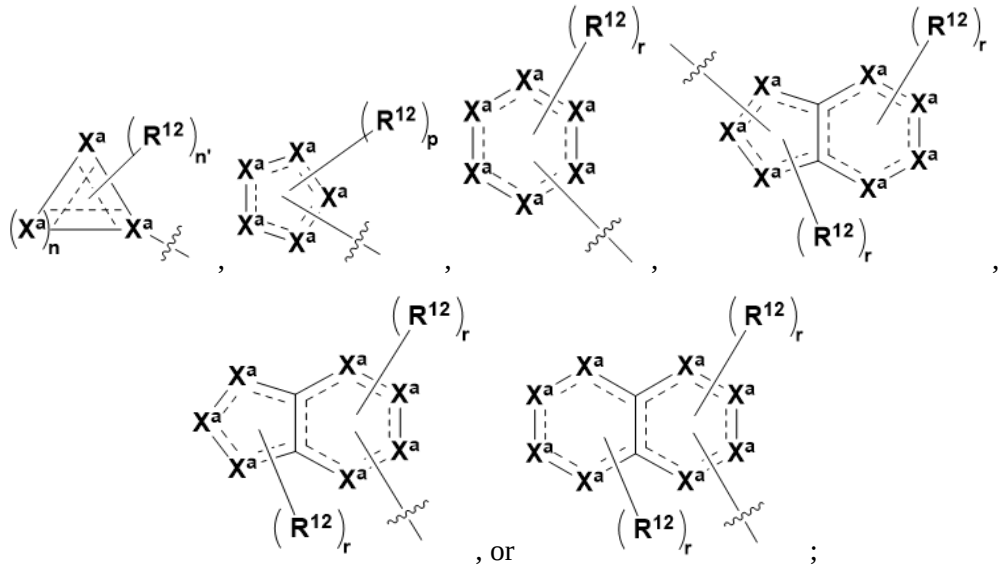
28. The compound or salt of any one of claims 1 to 27, wherein R^2 is unsubstituted or substituted heteroaryl having 8 to 10 ring-members.

29. The compound or salt of any one of claims 1 to 28, wherein R^2 is substituted with 1, 2, or 3 substituents.

30. The compound or salt of any one of claims 1 to 29, wherein, when R^2 is substituted, each R^2 substituent independently is halogen, -OH, oxo, $C_{1\text{-}3}$alkyl, or $C_{1\text{-}3}$alkoxy.

31. The compound or salt of any one of claims 1 to 30, wherein, when R^2 is substituted, each R^2 substituent independently is methyl, ethyl, or isopropyl.

32. The compound or salt of any one of claims 1 to 31, wherein R^2 is



where

"⎓" indicates a double bond or single bond may be present;

each instance of X^a independently is nitrogen, oxygen, or carbon;

each instance of n, where present, is an integer selected from 1, 2, 3, 4, or 5;

each instance of n', where present, is an integer selected from 1, 2, 3, 4, or 5;

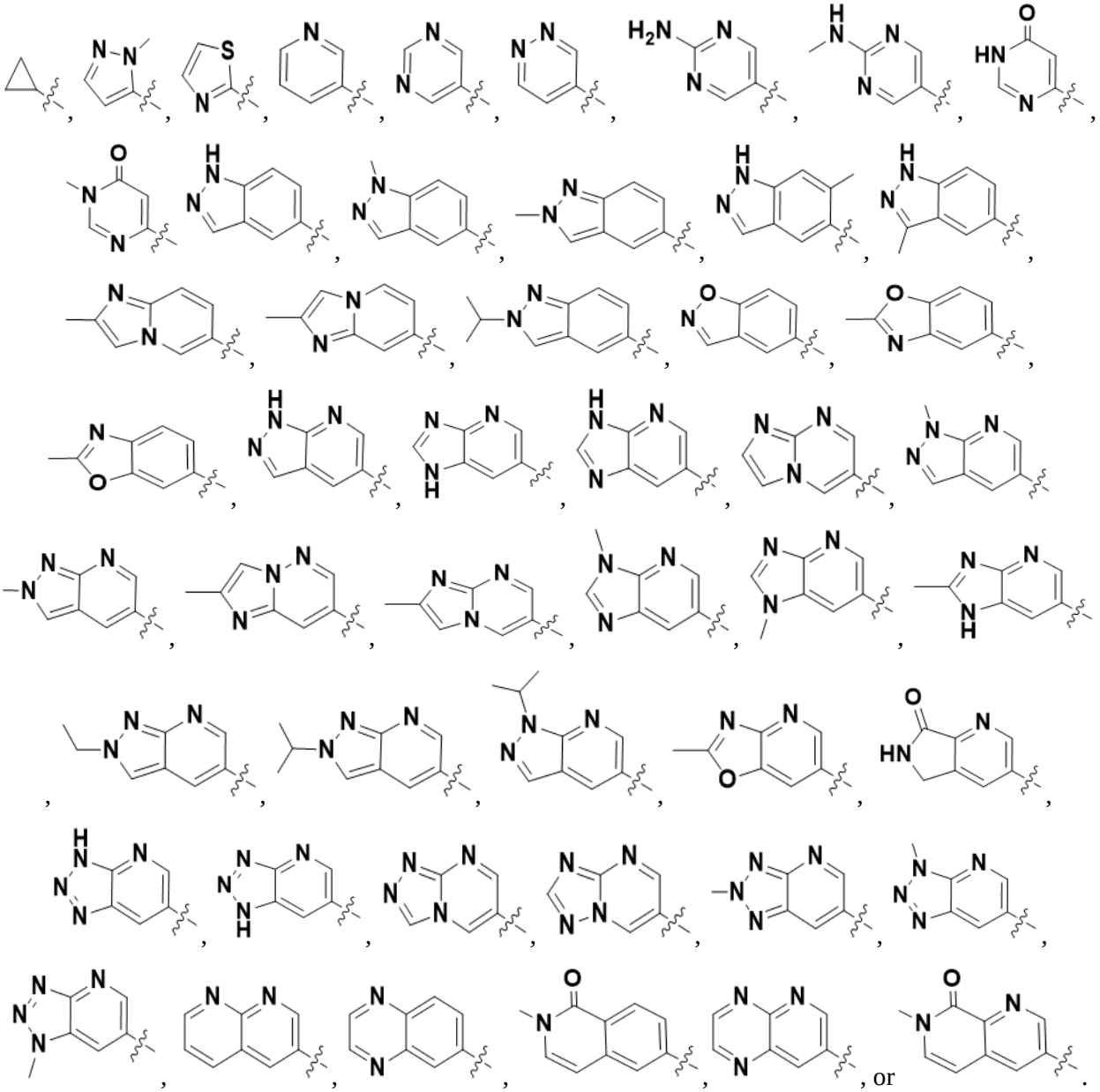
each instance of p, where present, is an integer selected from 0, 1, 2, 3, or 4;

each instance of r, where present, is an integer selected from 0, 1, 2, 3, 4, or 5, wherein where two instances of r occur on the same R^2 group, the total of both r values combined does not exceed 5;

each instance of R^{12}, when present and attached to an N ring member, is C_{1-6}alkyl, C_{1-6}haloalkyl, C_{1-6}alkylene-OH, or C_{1-6}alkylene-O-C_{1-6}alkyl; and

each instance of R^{12}, when present and attached to a C ring member, independently is halogen, -OH, oxo, -N(R^b)$_2$, C_{1-6} alkyl, C_{1-6} haloalkyl, C_{1-6} alkoxy, C_{1-6}alkylene-OH, or C_{1-6}alkylene-O-C_{1-6}alkyl.

33. The compound or salt of any one of claims 1 to 32, wherein R^2 is


, or .

34. The compound or salt of any one of claims 1 to 4 and 6-33, wherein R^3 is unsubstituted or substituted C_{1-6} alkyl, unsubstituted or substituted C_{3-6}cycloalkyl, or unsubstituted or substituted heteroaryl having 5 to 10 ring-members.

35. The compound or salt of any one of claims 1 to 4 and 6-34, wherein R^3 is unsubstituted or substituted heteroaryl and each heteroatom of the R^3 ring independently is nitrogen, oxygen, or $-S(O)_z-$, where z is 0, 1, or 2.

36. The compound or salt of any one of claims 1 to 4 and 6-35, wherein R^3 is substituted with 1, 2, or 3 substituents.

37. The compound or salt of any one of claims 1 to 4 and 6-36, wherein, when R^3 is substituted, each R^3 substituent independently is halogen, C_{1-3}alkyl, C_{1-3}alkoxy, or C_{1-3} alkylene-C_{1-3} alkoxy.

38. The compound or salt of any one of claims 1 to 4 and 6-35, wherein R^3 is unsubstituted.

39. The compound or salt of any one of claims 1 to 4 and 6-33, wherein R^3 is -H.

40. The compound or salt of any one of claims 1 to 4 and 6-39, wherein R^4 is -H, C_{1-3} alkyl, halogen, or $-N(R^a)_2$ where each instance of R^a, where present, independently is -H or C_{1-6} alkyl.

41. The compound or salt of any one of claims 1 to 4 and 6-40, wherein R^4 is -H.

42. The compound or salt of any one of claims 1 to 4 and 6-41, wherein R^5 is -H.

43. A compound, wherein the compound is:

5-(4-cyclobutyl-2-(methoxymethyl)thieno[2,3-*b*]pyridin-6-yl)-2-methyl-2*H*-pyrazolo[3,4-*b*]pyridine;

5-(2-(methoxymethyl)-4-(1-(methoxymethyl)cyclobutyl)thieno[2,3-*b*]pyridin-6-yl)-2-methyl-2*H*-pyrazolo[3,4-*b*]pyridine;

(*R*)-(4,6-bis(1-methyl-1*H*-pyrazol-5-yl)thieno[2,3-*b*]pyridin-2-yl)(cyclobutyl)methanol;

(*S*)-(4,6-bis(1-methyl-1*H* -pyrazol-5-yl)thieno[2,3-*b*]pyridin-2-yl)(cyclobutyl)methanol;

(*R*)-cyclobutyl(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)-4-(1-methyl-1*H*-pyrazol-5-yl)thieno[2,3-*b*]pyridin-2-yl)methanol;

(*S*)-cyclobutyl(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)-4-(1-methyl-1*H*-pyrazol-5-yl)thieno[2,3-*b*]pyridin-2-yl)methanol;

(*R*)-cyclobutyl(4-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)-6-(1-methyl-1*H*-pyrazol-5-yl)thieno[2,3-*b*]pyridin-2-yl)methanol;

(*S*)-cyclobutyl(4-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)-6-(1-methyl-1*H*-pyrazol-5-yl)thieno[2,3-*b*]pyridin-2-yl)methanol;

5-(2-((*R*)-cyclobutyl(methoxy)methyl)-4-(1-methyl-1*H*-pyrazol-5-yl)thieno[2,3-*b*]pyridin-6-yl)-2-methyl-2*H*-pyrazolo[3,4-*b*]pyridine;

5-(2-((*S*)-cyclobutyl(methoxy)methyl)-4-(1-methyl-1*H*-pyrazol-5-yl)thieno[2,3-*b*]pyridin-6-yl)-2-methyl-2*H*-pyrazolo[3,4-*b*]pyridine;

(1*R*)-1-cyclobutyl-1-(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)-4-(1-methyl-1*H*-pyrazol-5-yl)thieno[2,3-*b*]pyridin-2-yl)ethanol;

(1*S*)-1-cyclobutyl-1-(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)-4-(1-methyl-1*H*-pyrazol-5-yl)thieno[2,3-*b*]pyridin-2-yl)ethanol;

(1*R*)-1-cyclobutyl-2,2,2-trifluoro-1-(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)-4-(1-methyl-1*H*-pyrazol-5-yl)thieno[2,3-*b*]pyridin-2-yl)ethanol;

(1*S*)-1-cyclobutyl-2,2,2-trifluoro-1-(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)-4-(1-methyl-1*H*-pyrazol-5-yl)thieno[2,3-*b*]pyridin-2-yl)ethanol;

(1*R*)-1-(4-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)-6-(1-methyl-1*H*-pyrazol-5-yl)thieno[2,3-*b*]pyridin-2-yl)ethanol;

(1*S*)-1-(4-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)-6-(1-methyl-1*H*-pyrazol-5-yl)thieno[2,3-*b*]pyridin-2-yl)ethanol;

(1*R*)-1-(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)-4-(1-methyl-1*H*-pyrazol-5-yl)thieno[2,3-*b*]pyridin-2-yl)ethanol;

(1*S*)-1-(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)-4-(1-methyl-1*H*-pyrazol-5-yl)thieno[2,3-*b*]pyridin-2-yl)ethanol;

(*R*)-cyclobutyl(6-cyclopropyl-4-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)methanol;

(*S*)-cyclobutyl(6-cyclopropyl-4-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)methanol;

(*R*)-cyclobutyl(4-cyclopropyl-6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)methanol;

(*S*)-cyclobutyl(4-cyclopropyl-6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)methanol;

(4-(dimethylamino)-6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridine-2,5-diyl)dimethanol;

(1*R*)-1-(4,6-bis(1-methyl-1*H*-pyrazol-5-yl)thieno[2,3-*b*]pyridin-2-yl)ethanol;

(1*S*)-1-(4,6-bis(1-methyl-1*H*-pyrazol-5-yl)thieno[2,3-*b*]pyridin-2-yl)ethanol;

(1*R*)-1-(4,6-bis(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)ethanol;

(1*S*)-1-(4,6-bis(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)ethanol;

(1*R*)-1-(4-cyclopropyl-6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)ethanol;

(1*S*)-1-(4-cyclopropyl-6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)ethanol;

(1*R*)-1-(6-cyclopropyl-4-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)ethanol;

(1*S*)-1-(6-cyclopropyl-4-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)ethanol;

(1*R*)-1-(4-cyclopropyl-6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)-1-propanol;

(1*S*)-1-(4-cyclopropyl-6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)-1-propanol;

(*R*)-(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)(tetrahydro-2*H*-pyran-4-yl)methanol;

(*S*)-(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)(tetrahydro-2*H*-pyran-4-yl)methanol;

(*R*)-cyclopropyl(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)methanol;

(*S*)-cyclopropyl(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)methanol;

(*R*)-cyclobutyl(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)methanol;

(*S*)-cyclobutyl(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)methanol;

(3*R*)-3-(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)tetrahydro-3-furanol;

(3*S*)-3-(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)tetrahydro-3-furanol;

1-(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)cyclobutanol;

4-(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)tetrahydro-2*H*-pyran-4-ol;

(*R*)-(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)((3*R*)-tetrahydro-3-furanyl)methanol;

(*R*)-(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)((3*S*)-tetrahydro-3-furanyl)methanol;

(*S*)-(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)((3*R*)-tetrahydro-3-furanyl)methanol;

(*S*)-(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)((3*S*)-tetrahydro-3-furanyl)methanol;

3-(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)-3-oxetanol;

1-(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)cyclopentanol;

(1*R*)-1-(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)-1-propanol;

(1*S*)-1-(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)-1-propanol;

(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)methanol;

(1*R*)-2,2,2-trifluoro-1-(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)ethanol;

(1*S*)-2,2,2-trifluoro-1-(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)ethanol;

(1*R*)-2-methyl-1-(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)-1-propanol;

(1*S*)-2-methyl-1-(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)-1-propanol;

(1*R*)-1-(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)ethanol;

(1*S*)-1-(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)ethanol;

(1*R*)-1-(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)-1-butanol;

(1*S*)-1-(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)-1-butanol;

(*R*)-(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)(3-oxetanyl)methanol;

(*S*)-(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)(3-oxetanyl)methanol;

(1*R*)-3-methoxy-1-(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)-1-propanol;

(1*S*)-3-methoxy-1-(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)-1-propanol;

4,4-difluoro-1-(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)cyclohexanol;

(2*R*)-1,1,1-trifluoro-3-methoxy-2-(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)-2-propanol;

(2*S*)-1,1,1-trifluoro-3-methoxy-2-(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)-2-propanol;

(1*R*)-1-cyclopropyl-2,2,2-trifluoro-1-(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)ethanol;

(1*S*)-1-cyclopropyl-2,2,2-trifluoro-1-(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)ethanol;

(*R*)-(3,3-difluorocyclobutyl)(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)methanol;

(*S*)-(3,3-difluorocyclobutyl)(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)methanol;

(*R*)-(4,4-difluorocyclohexyl)(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)methanol;

(*S*)-(4,4-difluorocyclohexyl)(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)methanol;

1-methyl-3-(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)-3-azetidinol;

(3*R*)-1-methyl-3-(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)-3-piperidinol;

(3*S*)-1-methyl-3-(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)-3-piperidinol;

(2*R*)-1,1,1-trifluoro-2-(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)-2-butanol;

(2*S*)-1,1,1-trifluoro-2-(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)-2-butanol;

(1*R*)-2-methoxy-1-(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)ethanol;

(1*S*)-2-methoxy-1-(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)ethanol;

4-(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)tetrahydro-2*H*-thiopyran-4-ol 1,1-dioxide;

2-(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)-2-propanol;

(2*R*)-2-(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)-2-butanol;

(2*S*)-2-(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)-2-butanol;

(1*R*)-1-cyclopropyl-1-(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)ethanol;

(1*S*)-1-cyclopropyl-1-(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)ethanol;

1-methyl-4-(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)-4-piperidinol;

(2*R*)-1-methoxy-2-(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)-2-propanol;

(2*S*)-1-methoxy-2-(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)-2-propanol;

3,3-difluoro-1-(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)cyclobutanol;

(3*R*)-1-methyl-3-(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)-3-pyrrolidinol;

(3*S*)-1-methyl-3-(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)-3-pyrrolidinol;

(*R*)-(1-methyl-4-piperidinyl)(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)methanol;

(*S*)-(1-methyl-4-piperidinyl)(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)methanol;

(*S*)-(6-(1-methyl-1*H*-indazol-5-yl)thieno[2,3-*b*]pyridin-2-yl)(tetrahydro-2*H*-pyran-4-yl)methanol;

(*R*)-(6-(1-methyl-1*H*-indazol-5-yl)thieno[2,3-*b*]pyridin-2-yl)(tetrahydro-2*H*-pyran-4-yl)methanol;

(*S*)-(6-(1-methyl-1*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)(tetrahydro-2*H*-pyran-4-yl)methanol;

(*R*)-(6-(1-methyl-1*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)(tetrahydro-2*H*-pyran-4-yl)methanol;

(2*R*)-1,1,1-trifluoro-4-methoxy-2-(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)-2-butanol;

(2*S*)-1,1,1-trifluoro-4-methoxy-2-(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)-2-butanol;

(*S*)-(6-(1*H*-indazol-5-yl)thieno[2,3-*b*]pyridin-2-yl)(tetrahydro-2*H*-pyran-4-yl)methanol;

(*R*)-(6-(1*H*-indazol-5-yl)thieno[2,3-*b*]pyridin-2-yl)(tetrahydro-2*H*-pyran-4-yl)methanol;

(*S*)-(6-(6-methyl-1*H*-indazol-5-yl)thieno[2,3-*b*]pyridin-2-yl)(tetrahydro-2*H*-pyran-4-yl)methanol;

(*R*)-(6-(6-methyl-1*H*-indazol-5-yl)thieno[2,3-*b*]pyridin-2-yl)(tetrahydro-2*H*-pyran-4-yl)methanol;

(2*R*)-1,1,1-trifluoro-2-(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)-2-propanol;

(2*S*)-1,1,1-trifluoro-2-(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)-2-propanol;

(*S*)-(6-(2-methyl-2*H*-[1,2,3]triazolo[4,5-*b*]pyridin-6-yl)thieno[2,3-*b*]pyridin-2-yl)(tetrahydro-2*H*-pyran-4-yl)methanol;

(*R*)-(6-(2-methyl-2*H*-[1,2,3]triazolo[4,5-*b*]pyridin-6-yl)thieno[2,3-*b*]pyridin-2-yl)(tetrahydro-2*H*-pyran-4-yl)methanol;

(*S*)-(6-(3-methyl-1*H*-indazol-5-yl)thieno[2,3-*b*]pyridin-2-yl)(tetrahydro-2*H*-pyran-4-yl)methanol;

(*R*)-(6-(3-methyl-1*H*-indazol-5-yl)thieno[2,3-*b*]pyridin-2-yl)(tetrahydro-2*H*-pyran-4-yl)methanol;

(2*R*)-4-methoxy-2-(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)-2-butanol;

(2*S*)-4-methoxy-2-(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)-2-butanol;

(*R*)-(6-(3-methyl-3*H*-[1,2,3]triazolo[4,5-*b*]pyridin-6-yl)thieno[2,3-*b*]pyridin-2-yl)(tetrahydro-2*H*-pyran-4-yl)methanol;

(*S*)-(6-(3-methyl-3*H*-[1,2,3]triazolo[4,5-*b*]pyridin-6-yl)thieno[2,3-*b*]pyridin-2-yl)(tetrahydro-2*H*-pyran-4-yl)methanol;

(*R*)-(1-methyl-3-azetidinyl)(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)methanol;

(*S*)-(1-methyl-3-azetidinyl)(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)methanol;

(*S*)-(6-(1,2-benzoxazol-5-yl)thieno[2,3-*b*]pyridin-2-yl)(tetrahydro-2*H*-pyran-4-yl)methanol;

(*R*)-(6-(1,2-benzoxazol-5-yl)thieno[2,3-*b*]pyridin-2-yl)(tetrahydro-2*H*-pyran-4-yl)methanol;

(*S*)-tetrahydro-2*H*-pyran-4-yl(6-(3*H*-[1,2,3]triazolo[4,5-*b*]pyridin-6-yl)thieno[2,3-*b*]pyridin-2-yl)methanol;

(*R*)-tetrahydro-2*H*-pyran-4-yl(6-(3*H*-[1,2,3]triazolo[4,5-*b*]pyridin-6-yl)thieno[2,3-*b*]pyridin-2-yl)methanol;

(*R*)-((2*R*)-1-methyl-2-azetidinyl)(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)methanol;

(*R*)-((2*S*)-1-methyl-2-azetidinyl)(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)methanol;

(*S*)-((2*R*)-1-methyl-2-azetidinyl)(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)methanol;

(*S*)-((2*S*)-1-methyl-2-azetidinyl)(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)methanol;

(*S*)-(3,3-difluorocyclobutyl)(6-(2-methyl-1,3-benzoxazol-5-yl)thieno[2,3-*b*]pyridin-2-yl)methanol;

(*R*)-(3,3-difluorocyclobutyl)(6-(2-methyl-1,3-benzoxazol-5-yl)thieno[2,3-*b*]pyridin-2-yl)methanol;

(*S*)-(3,3-difluorocyclobutyl)(6-(1*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)methanol;

(*R*)-(3,3-difluorocyclobutyl)(6-(1*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)methanol;

(*S*)-(3,3-difluorocyclobutyl)(6-(2-methylimidazo[1,2-*a*]pyridin-6-yl)thieno[2,3-*b*]pyridin-2-yl)methanol;

(*R*)-(3,3-difluorocyclobutyl)(6-(2-methylimidazo[1,2-*a*]pyridin-6-yl)thieno[2,3-*b*]pyridin-2-yl)methanol;

6-(2-((*R*)-(3,3-difluorocyclobutyl)(hydroxy)methyl)thieno[2,3-*b*]pyridin-6-yl)-3-methyl-4(3*H*)-pyrimidinone;

6-(2-((*S*)-(3,3-difluorocyclobutyl)(hydroxy)methyl)thieno[2,3-*b*]pyridin-6-yl)-3-methyl-4(3*H*)-pyrimidinone;

6-(2-((*S*)-(3,3-difluorocyclobutyl)(hydroxy)methyl)thieno[2,3-*b*]pyridin-6-yl)-2-methyl-1(2*H*)-isoquinolinone;

6-(2-((*R*)-(3,3-difluorocyclobutyl)(hydroxy)methyl)thieno[2,3-*b*]pyridin-6-yl)-2-methyl-1(2*H*)-isoquinolinone;

(*S*)-(3,3-difluorocyclobutyl)(6-(2-methyl-1,3-benzoxazol-6-yl)thieno[2,3-*b*]pyridin-2-yl)methanol;

(*R*)-(3,3-difluorocyclobutyl)(6-(2-methyl-1,3-benzoxazol-6-yl)thieno[2,3-*b*]pyridin-2-yl)methanol;

(*S*)-(3,3-difluorocyclobutyl)(6-(6-quinoxalinyl)thieno[2,3-*b*]pyridin-2-yl)methanol;

(*R*)-(3,3-difluorocyclobutyl)(6-(6-quinoxalinyl)thieno[2,3-*b*]pyridin-2-yl)methanol;

(*S*)-(3,3-difluorocyclobutyl)(6-(2-ethyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)methanol;

(*R*)-(3,3-difluorocyclobutyl)(6-(2-ethyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)methanol;

(1*S*)-1-(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)-1-benzothiophen-2-yl)-1-butanol;

(1*R*)-1-(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)-1-benzothiophen-2-yl)-1-butanol;

(*S*)-(3,3-difluorocyclobutyl)(6-(2-methylimidazo[1,2-*a*]pyridin-7-yl)thieno[2,3-*b*]pyridin-2-yl)methanol;

(*R*)-(3,3-difluorocyclobutyl)(6-(2-methylimidazo[1,2-*a*]pyridin-7-yl)thieno[2,3-*b*]pyridin-2-yl)methanol;

(*S*)-(3,3-difluorocyclobutyl)(6-(2-(2-propanyl)-2*H*-indazol-5-yl)thieno[2,3-*b*]pyridin-2-yl)methanol;

(*R*)-(3,3-difluorocyclobutyl)(6-(2-(2-propanyl)-2*H*-indazol-5-yl)thieno[2,3-*b*]pyridin-2-yl)methanol;

(*S*)-(3,3-difluorocyclobutyl)(6-(5-pyrimidinyl)thieno[2,3-*b*]pyridin-2-yl)methanol;

(*R*)-(3,3-difluorocyclobutyl)(6-(5-pyrimidinyl)thieno[2,3-*b*]pyridin-2-yl)methanol;

(*S*)-cyclopentyl(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)-1-benzothiophen-2-yl)methanol;

(*R*)-cyclopentyl(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)-1-benzothiophen-2-yl)methanol;

(1*S*)-3-methoxy-1-(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)-1-benzothiophen-2-yl)-1-propanol;

(1*R*)-3-methoxy-1-(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)-1-benzothiophen-2-yl)-1-propanol;

(1*S*)-4,4,4-trifluoro-1-(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)-1-benzothiophen-2-yl)-1-butanol;

(1*R*)-4,4,4-trifluoro-1-(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)-1-benzothiophen-2-yl)-1-butanol;

(*S*)-(3,3-difluorocyclobutyl)(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)-1-benzothiophen-2-yl)methanol;

(*R*)-(3,3-difluorocyclobutyl)(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)-1-benzothiophen-2-yl)methanol;

(*R*)-(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)((3*R*)-1-methyl-3-pyrrolidinyl)methanol;

(*R*)-(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)((3*S*)-1-methyl-3-pyrrolidinyl)methanol;

(*S*)-(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)((3*R*)-1-methyl-3-pyrrolidinyl)methanol;

(*S*)-(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)((3*S*)-1-methyl-3-pyrrolidinyl)methanol;

(*R*)-((3*R*)-1-methyl-3-piperidinyl)(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)methanol;

(*R*)-((3*S*)-1-methyl-3-piperidinyl)(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)methanol;

(*S*)-((3*R*)-1-methyl-3-piperidinyl)(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)methanol;

(*S*)-((3*S*)-1-methyl-3-piperidinyl)(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)methanol;

(*S*)-(3,3-difluorocyclobutyl)(6-(2-(2-propanyl)-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)methanol;

(*R*)-(3,3-difluorocyclobutyl)(6-(2-(2-propanyl)-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)methanol;

(*S*)-(3,3-difluorocyclobutyl)(6-(1-(2-propanyl)-1*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)methanol;

(*R*)-(3,3-difluorocyclobutyl)(6-(1-(2-propanyl)-1*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)methanol;

(*R*)-(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)(tetrahydro-2*H*-pyran-4-yl)methan-d-ol;

(*S*)-(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)(tetrahydro-2*H*-pyran-4-yl)methan-d-ol;

(*R*)-(3-amino-6-(5-pyrimidinyl)thieno[2,3-*b*]pyridin-2-yl)(3,3-difluorocyclobutyl)methanol;

(*S*)-(3-amino-6-(5-pyrimidinyl)thieno[2,3-*b*]pyridin-2-yl)(3,3-difluorocyclobutyl)methanol;

2-(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-b]pyridin-2-yl)spiro[3.3]heptan-2-ol;

3,3-dimethyl-1-(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)cyclobutanol;

6,6-difluoro-2-(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)spiro[3.3]heptan-2-ol;

6-(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)-2-oxaspiro[3.3]heptan-6-ol;

cis-1-(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)-3-(trifluoromethyl)cyclobutanol;

cis-3-(difluoromethyl)-1-(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)cyclobutanol;

cis-3-methoxy-1-(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)cyclobutanol;

(*S*)-(3,3-difluorocyclobutyl)(5-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)[1,3]thiazolo[5,4-*b*]pyridin-2-yl)methanol;

(*R*)-(3,3-difluorocyclobutyl)(5-(2-methyl-2H-pyrazolo[3,4-*b*]pyridin-5-yl)[1,3]thiazolo[5,4-*b*]pyridin-2-yl)methanol;

1-(6-(2-ethyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)-3,3-difluorocyclobutanol;

(*S*)-(3,3-difluorocyclobutyl)(5-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[3,2-*b*]pyridin-2-yl)methanol;

(*R*)-(3,3-difluorocyclobutyl)(5-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[3,2-*b*]pyridin-2-yl)methanol;

3,3-difluoro-1-(6-(3-methyl-3*H*-imidazo[4,5-*b*]pyridin-6-yl)thieno[2,3-*b*]pyridin-2-yl)cyclobutanol;

3,3-difluoro-1-(6-(2-methyl[1,3]oxazolo[4,5-*b*]pyridin-6-yl)thieno[2,3-*b*]pyridin-2-yl)cyclobutanol;

3,3-difluoro-1-(6-(2-methyl-3*H*-imidazo[4,5-*b*]pyridin-6-yl)thieno[2,3-*b*]pyridin-2-yl)cyclobutanol;

3,3-difluoro-1-(6-(1*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)cyclobutanol;

3,3-difluoro-1-(6-(2-methylimidazo[1,2-*a*]pyridin-6-yl)thieno[2,3-*b*]pyridin-2-yl)cyclobutanol;

1-(6-(2-amino-5-pyrimidinyl)thieno[2,3-*b*]pyridin-2-yl)-3,3-difluorocyclobutanol;

(*S*)-(3,3-difluorocyclobutyl)(5-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)[1,3]thiazolo[4,5-*b*]pyridin-2-yl)methanol;

(*R*)-(3,3-difluorocyclobutyl)(5-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)[1,3]thiazolo[4,5-*b*]pyridin-2-yl)methanol;

3,3-difluoro-1-(6-(2-methyl-1,3-benzoxazol-6-yl)thieno[2,3-*b*]pyridin-2-yl)cyclobutanol;

trans-3-fluoro-1-(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)cyclobutanol;

(*R*)-(3,3-difluorocyclobutyl)(2-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*d*]pyrimidin-6-yl)methanol;

(*S*)-(3,3-difluorocyclobutyl)(2-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*d*]pyrimidin-6-yl)methanol;

(*S*)-(3-chloro-6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)(3,3-difluorocyclobutyl)methanol;

(*R*)-(3-chloro-6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)(3,3-difluorocyclobutyl)methanol;

3,3-difluoro-1-(6-(3*H*-imidazo[4,5-*b*]pyridin-6-yl)thieno[2,3-*b*]pyridin-2-yl)cyclobutanol;

3,3-difluoro-1-(6-(1*H*-indazol-5-yl)thieno[2,3-*b*]pyridin-2-yl)cyclobutanol;

(*R*)-(3,3-difluorocyclobutyl)(5-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)methanol;

(*S*)-(3,3-difluorocyclobutyl)(5-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)methanol;

(*S*)-(3,3-difluorocyclobutyl)(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[3,2-*b*]pyridin-2-yl)methanol;

(*R*)-(3,3-difluorocyclobutyl)(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[3,2-*b*]pyridin-2-yl)methanol;

3,3-difluoro-1-(6-(2-(methylamino)-5-pyrimidinyl)thieno[2,3-*b*]pyridin-2-yl)cyclobutanol;

(*R*)-(3,3-difluorocyclobutyl)(6-(2-methyl-2H-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)methan-d-ol;

(*S*)-(3,3-difluorocyclobutyl)(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)methan-d-ol;

3,3-difluoro-1-(6-(2-methylimidazo[1,2-*a*]pyridin-7-yl)thieno[2,3-*b*]pyridin-2-yl)cyclobutanol;

3,3-difluoro-1-(6-(2-methylimidazo[1,2-*a*]pyrimidin-6-yl)thieno[2,3-*b*]pyridin-2-yl)cyclobutanol;

(2*R*)-2-(3,3-difluorocyclobutyl)-2-(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)ethanol;

(2*S*)-2-(3,3-difluorocyclobutyl)-2-(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)ethanol;

3,3-difluoro-1-(6-(5-pyrimidinyl)thieno[2,3-*b*]pyridin-2-yl)cyclobutanol;

3,3-difluoro-1-(6-(pyrido[2,3-*b*]pyrazin-7-yl)thieno[2,3-*b*]pyridin-2-yl)cyclobutanol;

(*S*)-(3,3-difluorocyclobutyl)(2-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)-7-quinolinyl)methanol;

(*R*)-(3,3-difluorocyclobutyl)(2-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)-7-quinolinyl)methanol;

3,3-difluoro-1-(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)-1-benzothiophen-2-yl)cyclobutanol;

3,3-difluoro-1-(6-(2-methyl-2*H*-indazol-5-yl)thieno[2,3-*b*]pyridin-2-yl)cyclobutanol;

1-(6-(1,2-benzoxazol-5-yl)thieno[2,3-*b*]pyridin-2-yl)-3,3-difluorocyclobutanol;

3,3-difluoro-1-(6-(3-methyl-3*H*-[1,2,3]triazolo[4,5-*b*]pyridin-6-yl)thieno[2,3-*b*]pyridin-2-yl)cyclobutanol;

2-(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)spiro[3.5]nonan-2-ol;

2-(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)spiro[3.4]octan-2-ol;

3,3-difluoro-1-(6-(2-methylimidazo[1,2-*b*]pyridazin-7-yl)thieno[2,3-*b*]pyridin-2-yl)cyclobutanol;

3,3-difluoro-1-(6-(3*H*-[1,2,3]triazolo[4,5-*b*]pyridin-6-yl)thieno[2,3-*b*]pyridin-2-yl)cyclobutanol;

(*R*)-(3,3-difluorocyclobutyl)(6-(3-methyl-3*H*-[1,2,3]triazolo[4,5-*b*]pyridin-6-yl)thieno[2,3-*b*]pyridin-2-yl)methanol;

(*S*)-(3,3-difluorocyclobutyl)(6-(3-methyl-3*H*-[1,2,3]triazolo[4,5-*b*]pyridin-6-yl)thieno[2,3-*b*]pyridin-2-yl)methanol;

trans-6-(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)-1-oxaspiro[3.3]heptan-6-ol;

cis-6-(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)-1-oxaspiro[3.3]heptan-6-ol;

3,3-dimethyl-1-(2-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*d*]pyrimidin-6-yl)cyclobutanol;

cis-3-(methoxymethyl)-1-(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)cyclobutanol;

trans-3-methoxy-3-methyl-1-(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)cyclobutanol;

cis-3-methoxy-3-methyl-1-(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)cyclobutanol;

(*R*)-(3,3-difluorocyclobutyl)(3-methyl-6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)methanol;

(*S*)-(3,3-difluorocyclobutyl)(3-methyl-6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)methanol;

1-(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)cyclopropanol;

5-(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)spiro[2.3]hexan-5-ol;

cis-3-cyclopropyl-1-(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)cyclobutanol;

trans-3-hydroxy-1-methyl-3-(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)cyclobutanecarbonitrile;

cis-3-hydroxy-1-methyl-3-(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)cyclobutanecarbonitrile;

(1*S*,2*R*)-2-methyl-1-(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)cyclobutanol;

(1*R*,2*S*)-2-methyl-1-(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)cyclobutanol;

(1*S*)-2,2-dimethyl-1-(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)cyclobutanol;

(1*R*)-2,2-dimethyl-1-(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)cyclobutanol;

trans-3-methoxy-1-(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)-3-(trifluoromethyl)cyclobutanol;

cis-3-methoxy-1-(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)-3-(trifluoromethyl)cyclobutanol;

cis-1-(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)-3-(trifluoromethoxy)cyclobutanol;

3,3-dimethyl-1-(5-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)[1,3]thiazolo[5,4-*b*]pyridin-2-yl)cyclobutanol;

cis-1-(3-chloro-6-(2-methyl-2H-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)-3-methoxycyclobutanol;

(1*R*,2*R*)-2-methoxy-1-(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)cyclobutanol;

(1*R*,2*S*)-2-methoxy-1-(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)cyclobutanol;

(1*S*,2*R*)-2-methoxy-1-(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)cyclobutanol;

cis-1-(2-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*d*]pyrimidin-6-yl)-3-(trifluoromethyl)cyclobutanol;

(1*S*,2*S*)-2-methoxy-1-(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)cyclobutanol;

1-(3-chloro-6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)-3,3-dimethylcyclobutanol;

cis-1-(5-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)[1,3]thiazolo[5,4-*b*]pyridin-2-yl)-3-(trifluoromethyl)cyclobutanol;

(*S*)-(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)((*cis*)-3-(trifluoromethyl)cyclobutyl)methanol;

(*R*)-(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)((*cis*)-3-(trifluoromethyl)cyclobutyl)methanol;

(*S*)-(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)((*trans*)-3-(trifluoromethyl)cyclobutyl)methanol;

(*R*)-(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)((*trans*)-3-(trifluoromethyl)cyclobutyl)methanol;

cis-1-(3-chloro-6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)-3-(trifluoromethyl)cyclobutanol;

(*R*)-((1*R*)-2,2-difluorocyclopropyl)(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)methanol;

(*S*)-((1*S*)-2,2-difluorocyclopropyl)(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)methanol;

(*S*)-((1*R*)-2,2-difluorocyclopropyl)(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)methanol;

(*R*)-((1*S*)-2,2-difluorocyclopropyl)(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)methanol;

(*R*)-(3,3-difluoro-1-methylcyclobutyl)(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)methanol;

(*S*)-(3,3-difluoro-1-methylcyclobutyl)(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)methanol;

(*R*)-bicyclo[1.1.1]pentan-1-yl(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)methanol;

(*S*)-bicyclo[1.1.1]pentan-1-yl(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)methanol;

(*S*)-((*cis*)-3-methoxycyclobutyl)(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)methanol;

cis-3-(difluoromethyl)-1-(6-(3-methyl-3*H*-[1,2,3]triazolo[4,5-*b*]pyridin-6-yl)thieno[2,3-*b*]pyridin-2-yl)cyclobutanol;

(*R*)-((*cis*)-3-methoxycyclobutyl)(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)methanol;

(*S*)-((*trans*)-3-methoxycyclobutyl)(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)methanol;

(*R*)-((*trans*)-3-methoxycyclobutyl)(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)methanol;

3,3-dimethyl-1-(2-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)-7-quinolinyl)cyclobutanol;

3,3-difluoro-1-(3-methyl-6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)cyclobutanol;

cis-1-(3-methyl-6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)-3-(trifluoromethyl)cyclobutanol;

cis-1-(6-(3-methyl-3*H*-[1,2,3]triazolo[4,5-*b*]pyridin-6-yl)thieno[2,3-*b*]pyridin-2-yl)-3-(trifluoromethyl)cyclobutanol;

cis-3-(difluoromethyl)-1-(2-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*d*]pyrimidin-6-yl)cyclobutanol;

(*R*)-(2-(3-methyl-3*H*-[1,2,3]triazolo[4,5-*b*]pyridin-6-yl)-7-quinolinyl)(tetrahydro-2*H*-pyran-4-yl)methanol;

(*S*)-(2-(3-methyl-3*H*-[1,2,3]triazolo[4,5-*b*]pyridin-6-yl)-7-quinolinyl)(tetrahydro-2*H*-pyran-4-yl)methanol;

(*R*)-(2-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)-7-quinolinyl)(tetrahydro-2*H*-pyran-4-yl)methanol;

(*S*)-(2-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)-7-quinolinyl)(tetrahydro-2*H*-pyran-4-yl)methanol;

cis-3-(difluoromethyl)-1-(5-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)[1,3]thiazolo[5,4-*b*]pyridin-2-yl)cyclobutanol;

cis-3-(difluoromethyl)-1-(5-(3-methyl-3*H*-[1,2,3]triazolo[4,5-*b*]pyridin-6-yl)[1,3]thiazolo[5,4-*b*]pyridin-2-yl)cyclobutanol;

(*R*)-(3-methyl-6-(3-methyl-3*H*-[1,2,3]triazolo[4,5-*b*]pyridin-6-yl)thieno[2,3-*b*]pyridin-2-yl)(tetrahydro-2*H*-pyran-4-yl)methanol;

(*S*)-(3-methyl-6-(3-methyl-3*H*-[1,2,3]triazolo[4,5-*b*]pyridin-6-yl)thieno[2,3-*b*]pyridin-2-yl)(tetrahydro-2*H*-pyran-4-yl)methanol;

(*R*)-(3-methyl-6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)(tetrahydro-2*H*-pyran-4-yl)methanol;

(*S*)-(3-methyl-6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)(tetrahydro-2*H*-pyran-4-yl)methanol;

cis-3-(difluoromethyl)-1-(2-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)-7-quinolinyl)cyclobutanol;

(*R*)-(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)(3-(trifluoromethyl)bicyclo[1.1.1]pentan-1-yl)methanol;

(*S*)-(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)(3-(trifluoromethyl)bicyclo[1.1.1]pentan-1-yl)methanol;

cis-3-fluoro-1-(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)cyclobutanol;

cis-3-(difluoromethyl)-1-(3-methyl-6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)cyclobutanol;

cis-3-(difluoromethyl)-1-(2-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)-6-quinolinyl)cyclobutanol;

cis-3-(difluoromethyl)-1-(5-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[3,2-*b*]pyridin-2-yl)cyclobutanol;

cis-3-(difluoromethyl)-1-(2-(3-methyl-3*H*-[1,2,3]triazolo[4,5-*b*]pyridin-6-yl)thieno[2,3-*d*]pyrimidin-6-yl)cyclobutanol;

cis-1-(5-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[3,2-*b*]pyridin-2-yl)-3-(trifluoromethyl)cyclobutanol;

(*S*)-(3,3-difluorocyclobutyl)(2-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)-6-quinolinyl)methanol;

(*R*)-(3,3-difluorocyclobutyl)(2-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)-6-quinolinyl)methanol;

cis-3-(difluoromethyl)-1-(6-(2-ethyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)cyclobutanol;

(*trans*)-1,1-difluoro-5-(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)spiro[2.3]hexan-5-ol;

(*cis*)-1,1-difluoro-5-(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)spiro[2.3]hexan-5-ol;

cis-3-(difluoromethyl)-1-(2-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[3,2-*d*]pyrimidin-6-yl)cyclobutanol;

cis-3-(difluoromethyl)-1-(5-methyl-2-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*d*]pyrimidin-6-yl)cyclobutanol;

trans-3-hydroxy-1-methyl-3-(5-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)[1,3]thiazolo[5,4-*b*]pyridin-2-yl)cyclobutanecarbonitrile;

cis-3-hydroxy-1-methyl-3-(5-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)[1,3]thiazolo[5,4-*b*]pyridin-2-yl)cyclobutanecarbonitrile;

cis-3-(difluoromethyl)-1-(6-(2-methylimidazo[1,2-*b*]pyridazin-7-yl)thieno[2,3-*b*]pyridin-2-yl)cyclobutanol;

cis-3-(difluoromethyl)-1-(6-(2-methyl-3*H*-imidazo[4,5-*b*]pyridin-6-yl)thieno[2,3-*b*]pyridin-2-yl)cyclobutanol;

(*R*)-(3,3-difluorocyclobutyl)(3-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyrazin-6-yl)methanol;

(*S*)-(3,3-difluorocyclobutyl)(3-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyrazin-6-yl)methanol;

(2*S*)-2-(3,3-difluorocyclobutyl)-2-(3-methyl-6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)ethanol;

(2*R*)-2-(3,3-difluorocyclobutyl)-2-(3-methyl-6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)ethanol;

cis-3-methoxy-1-(2-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*d*]pyrimidin-6-yl)cyclobutanol;

cis-1-(2-(3-methyl-3*H*-[1,2,3]triazolo[4,5-*b*]pyridin-6-yl)thieno[2,3-*d*]pyrimidin-6-yl)-3-(trifluoromethyl)cyclobutanol;

cis-3-hydroxy-1-methyl-3-(2-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*d*]pyrimidin-6-yl)cyclobutanecarbonitrile;

trans-3-hydroxy-1-methyl-3-(2-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*d*]pyrimidin-6-yl)cyclobutanecarbonitrile;

cis-3-(difluoromethyl)-1-(6-(2-methylimidazo[1,2-a]pyrimidin-6-yl)thieno[2,3-*b*]pyridin-2-yl)cyclobutanol;

trans-3-hydroxy-1-methyl-3-(2-(3-methyl-3*H*-[1,2,3]triazolo[4,5-*b*]pyridin-6-yl)thieno[2,3-*d*]pyrimidin-6-yl)cyclobutanecarbonitrile;

cis-3-hydroxy-1-methyl-3-(2-(3-methyl-3*H*-[1,2,3]triazolo[4,5-*b*]pyridin-6-yl)thieno[2,3-*d*]pyrimidin-6-yl)cyclobutanecarbonitrile;

cis-3-cyclopropyl-1-(2-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*d*]pyrimidin-6-yl)cyclobutanol;

cis-1-(2-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*d*]pyrimidin-6-yl)-3-(trifluoromethoxy)cyclobutanol;

cis-1-(6-(3-methyl-3*H*-[1,2,3]triazolo[4,5-*b*]pyridin-6-yl)thieno[2,3-*b*]pyridin-2-yl)-3-(trifluoromethoxy)cyclobutanol;

cis-3-methoxy-3-methyl-1-(6-(3-methyl-3*H*-[1,2,3]triazolo[4,5-*b*]pyridin-6-yl)thieno[2,3-*b*]pyridin-2-yl)cyclobutanol;

cis-3-(difluoromethyl)-1-(6-(3*H*-[1,2,3]triazolo[4,5-*b*]pyridin-6-yl)thieno[2,3-*b*]pyridin-2-yl)cyclobutanol;

trans-3-hydroxy-1-methyl-3-(6-(3-methyl-3*H*-[1,2,3]triazolo[4,5-*b*]pyridin-6-yl)thieno[2,3-*b*]pyridin-2-yl)cyclobutanecarbonitrile;

cis-1-(5-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)[1,3]thiazolo[5,4-*b*]pyridin-2-yl)-3-(trifluoromethoxy)cyclobutanol;

trans-3-hydroxy-1-methyl-3-(5-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[3,2-*b*]pyridin-2-yl)cyclobutanecarbonitrile;

cis-3-hydroxy-1-methyl-3-(5-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[3,2-*b*]pyridin-2-yl)cyclobutanecarbonitrile;

5-(2-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*d*]pyrimidin-6-yl)spiro[2.3]hexan-5-ol;

5-(5-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)[1,3]thiazolo[5,4-*b*]pyridin-2-yl)spiro[2.3]hexan-5-ol;

(*R*)-((1*S*)-2,2-difluorocyclobutyl)(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)methanol;

(*S*)-((1*R*)-2,2-difluorocyclobutyl)(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)methanol;

(*R*)-((1*R*)-2,2-difluorocyclobutyl)(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)methanol;

(*S*)-((1*S*)-2,2-difluorocyclobutyl)(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)methanol;

cis-3-(difluoromethyl)-1-(5-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)[1,3]thiazolo[5,4-d]pyrimidin-2-yl)cyclobutanol;

cis-3-hydroxy-1-methyl-3-(6-(3-methyl-3*H*-[1,2,3]triazolo[4,5-*b*]pyridin-6-yl)thieno[2,3-*b*]pyridin-2-yl)cyclobutanecarbonitrile;

cis-1-(2-(3-methyl-3*H*-[1,2,3]triazolo[4,5-*b*]pyridin-6-yl)thieno[2,3-d]pyrimidin-6-yl)-3-(trifluoromethoxy)cyclobutanol;

cis-1-(5-(3-methyl-3*H*-[1,2,3]triazolo[4,5-*b*]pyridin-6-yl)[1,3]thiazolo[5,4-*b*]pyridin-2-yl)-3-(trifluoromethoxy)cyclobutanol;

trans-3-methoxy-1-(2-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*d*]pyrimidin-6-yl)-3-(trifluoromethyl)cyclobutanol;

cis-3-methoxy-1-(2-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*d*]pyrimidin-6-yl)-3-(trifluoromethyl)cyclobutanol;

trans-1,1-difluoro-5-(2-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*d*]pyrimidin-6-yl)spiro[2.3]hexan-5-ol;

cis-1,1-difluoro-5-(2-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*d*]pyrimidin-6-yl)spiro[2.3]hexan-5-ol;

trans-1,1-difluoro-5-(5-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)[1,3]thiazolo[5,4-*b*]pyridin-2-yl)spiro[2.3]hexan-5-ol;

cis-1,1-difluoro-5-(5-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)[1,3]thiazolo[5,4-*b*]pyridin-2-yl)spiro[2.3]hexan-5-ol;

6,6-difluoro-2-(2-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*d*]pyrimidin-6-yl)spiro[3.3]heptan-2-ol;

cis-1-(5-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[3,2-*b*]pyridin-2-yl)-3-(trifluoromethoxy)cyclobutanol;

trans-3-methoxy-3-methyl-1-(2-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*d*]pyrimidin-6-yl)cyclobutanol;

cis-3-methoxy-3-methyl-1-(2-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*d*]pyrimidin-6-yl)cyclobutanol;

cis-3-(methoxymethyl)-1-(2-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*d*]pyrimidin-6-yl)cyclobutanol;

cis-1-(2-(1-methyl-1*H*-pyrazol-4-yl)thieno[2,3-*d*]pyrimidin-6-yl)-3-(trifluoromethyl)cyclobutanol;

(*S*)-(3-amino-6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)(3,3-difluorocyclobutyl)methanol;

(*R*)-(3-amino-6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)(3,3-difluorocyclobutyl)methanol;

trans-3-methoxy-3-methyl-1-(2-(3-methyl-3*H*-[1,2,3]triazolo[4,5-*b*]pyridin-6-yl)thieno[2,3-*d*]pyrimidin-6-yl)cyclo*b*utanol;

cis-3-methoxy-3-methyl-1-(2-(3-methyl-3*H*-[1,2,3]triazolo[4,5-*b*]pyridin-6-yl)thieno[2,3-*d*]pyrimidin-6-yl)cyclobutanol;

cis-1-(2-(3-pyridinyl)thieno[2,3-*d*]pyrimidin-6-yl)-3-(trifluoromethyl)cyclobutanol;

cis-1-(2-(6-quinoxalinyl)thieno[2,3-*d*]pyrimidin-6-yl)-3-(trifluoromethyl)cyclobutanol;

cis-1-(2-(imidazo[1,2-a]pyrimidin-6-yl)thieno[2,3-*d*]pyrimidin-6-yl)-3-(trifluoromethyl)cyclobutanol;

trans-3-methoxy-3-methyl-1-(5-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)[1,3]thiazolo[5,4-*b*]pyridin-2-yl)cyclobutanol;

cis-3-methoxy-3-methyl-1-(5-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)[1,3]thiazolo[5,4-*b*]pyridin-2-yl)cyclobutanol;

trans-3-methoxy-3-methyl-1-(6-(3-methyl-3*H*-[1,2,3]triazolo[4,5-*b*]pyridin-6-yl)thieno[2,3-*b*]pyridin-2-yl)cyclobutanol;

cis-1-(2-(4-pyridazinyl)thieno[2,3-d]pyrimidin-6-yl)-3-(trifluoromethyl)cyclobutanol;

cis-3-methoxy-3-methyl-1-(5-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[3,2-*b*]pyridin-2-yl)cyclobutanol;

3-(6-(*cis*-1-hydroxy-3-(trifluoromethyl)cyclobutyl)thieno[2,3-*d*]pyrimidin-2-yl)-5,6-dihydro-7*H*-pyrrolo[3,4-*b*]pyridin-7-one;

cis-1-(2-([1,2,4]triazolo[4,3-*a*]pyrimidin-6-yl)thieno[2,3-*d*]pyrimidin-6-yl)-3-(trifluoromethyl)cyclobutanol;

(*R*)-(3,3-difluorocyclobutyl)(2-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyrazin-6-yl)methanol;

(*S*)-(3,3-difluorocyclobutyl)(2-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyrazin-6-yl)methanol;

trans-3-methyl-1-(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)-3-(trifluoromethyl)cyclobutanol;

cis-3-methyl-1-(6-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*b*]pyridin-2-yl)-3-(trifluoromethyl)cyclobutanol;

cis-1-(2-(2-methyl-2*H*-[1,2,3]triazolo[4,5-*b*]pyridin-6-yl)thieno[2,3-*d*]pyrimidin-6-yl)-3-(trifluoromethyl)cyclobutanol;

cis-1-(2-(1-methyl-1*H*-[1,2,3]triazolo[4,5-*b*]pyridin-6-yl)thieno[2,3-*d*]pyrimidin-6-yl)-3-(trifluoromethyl)cyclobutanol;

cis-1-(2-(1-methyl-1*H*-imidazo[4,5-*b*]pyridin-6-yl)thieno[2,3-*d*]pyrimidin-6-yl)-3-(trifluoromethyl)cyclobutanol;

cis-1-(2-(1,8-naphthyridin-3-yl)thieno[2,3-*d*]pyrimidin-6-yl)-3-(trifluoromethyl)cyclobutanol;

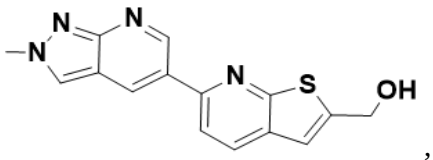
trans-3-(difluoromethyl)-1-(5-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thiazolo[5,4-*b*]pyridin-2-yl)cyclobutanol;

trans-3-methoxy-1-(2-(2-methyl-2*H*-pyrazolo[3,4-*b*]pyridin-5-yl)thieno[2,3-*d*]pyrimidin-6-yl)cyclobutan-1-ol; or

cis-1-(2-([1,2,4]triazolo[1,5-*a*]pyrimidin-6-yl)thieno[2,3-*d*]pyrimidin-6-yl)-3-(trifluoromethyl)cyclobutan-1-ol; or

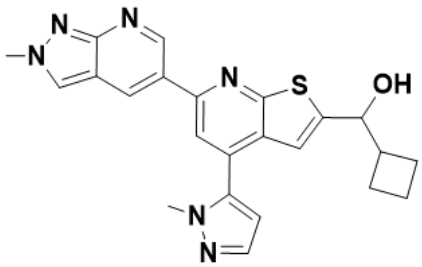
a pharmaceutically acceptable salt of any of the foregoing.

44. The compound or salt of claim 1, wherein the compound is:

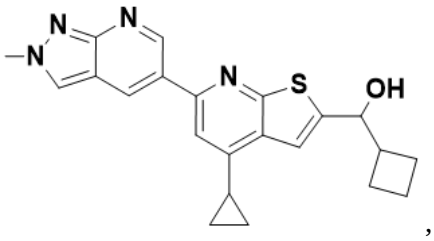


A1

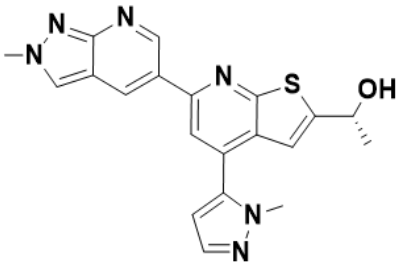
,



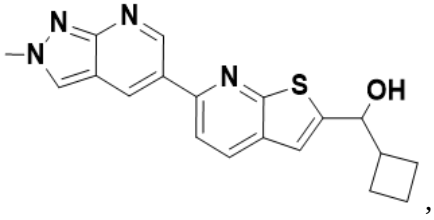
B2



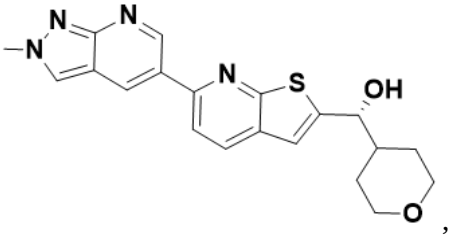
B8



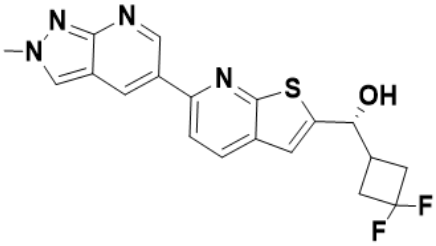
B6R



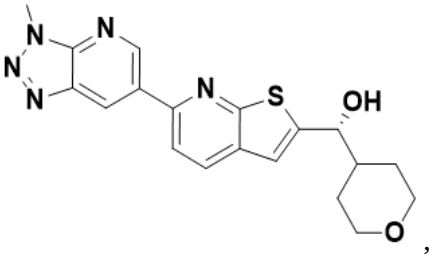
B18



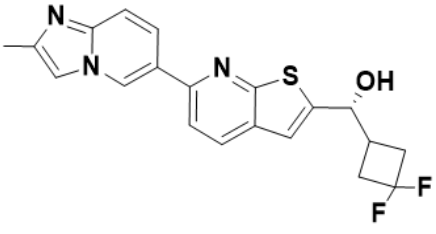
B15R



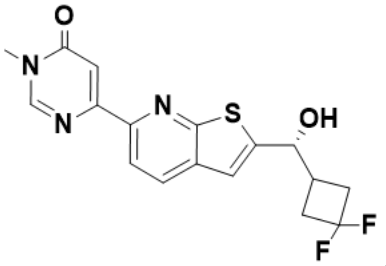
B30R



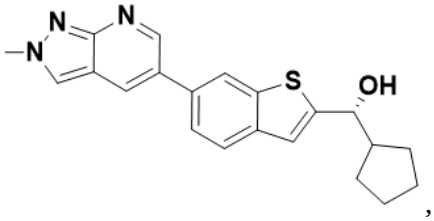
B41R



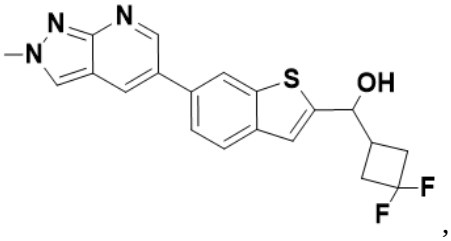
B48R



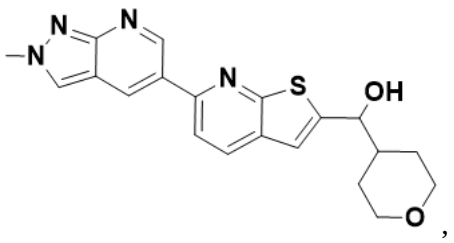
B49R



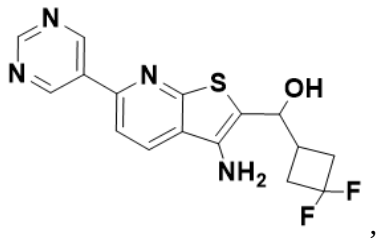
B58R



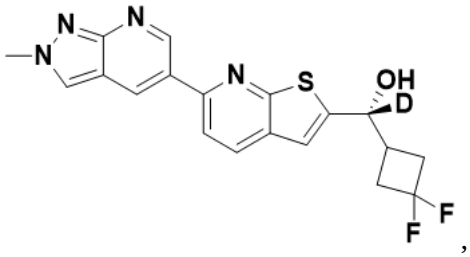
B61



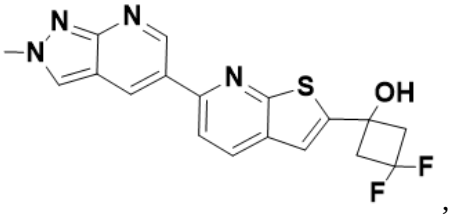
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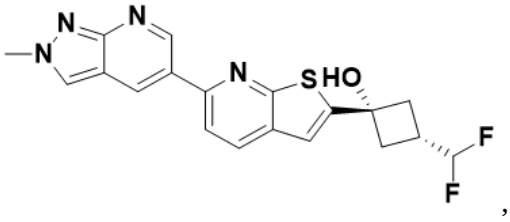
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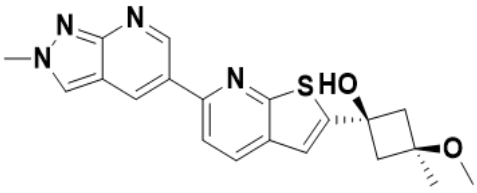
B79R



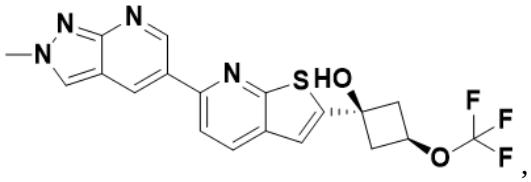
C5



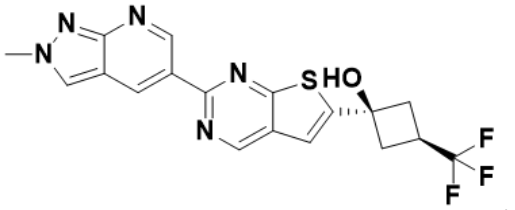
C30C



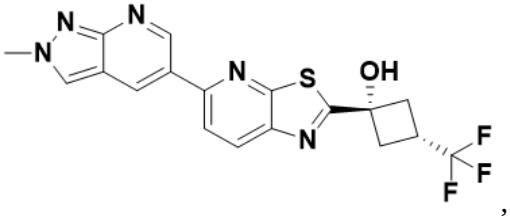
C59C



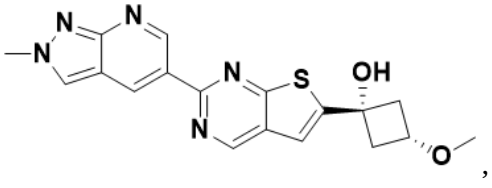
C67C



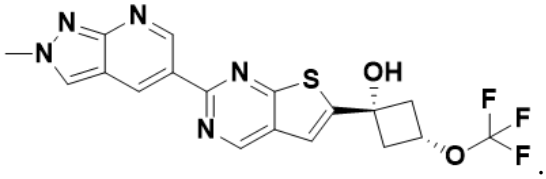
C71C



C74C



C94C



45. The compound of any one of claims 1 to 44.

46. A pharmaceutical composition comprising the compound or salt according to any one of claims 1 to 44 or the compound of claim 45, and a pharmaceutically acceptable excipient.

47. A compound or salt according to any one of claims 1 to 44, the compound of claim 45, or the pharmaceutical composition of claim 46, for use as a medicament.

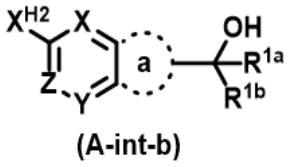
48. Use of a compound or salt according to any one of claims 1 to 44, the compound of claim 45, or the pharmaceutical composition of claim 46, in the manufacture of a medicament for treating inflammatory bowel disease.

49. Use of a compound or salt according to any one of claims 1 to 44 or the compound of claim 45, in the manufacture of a medicament for the treatment of a 15-PGDH mediated disease or disorder.

50. Use of a compound or salt according to any one of claims 1 to 44, the compound of claim 45, or the pharmaceutical composition of claim 46 in the manufacture of a medicament for treating intestinal, gastrointestinal, or bowel disorders in a subject in need thereof.

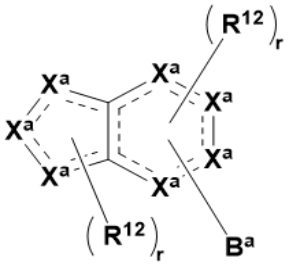
51. A method of manufacturing the compound or salt of claim 1, the method comprising:

performing a Suzuki coupling between a compound of Formula (A-int-b)



(A-int-b) (A-int-b)

and a compound of Formula (R2-B):



(R2-B);

where

X^{H2} is a -Br or -Cl;

B^a is a boronic acid group or a boronic ester group;

"----" indicates a double bond or single bond may be present;

each instance of X^a independently is nitrogen, oxygen, or carbon;

each instance of r, where present, is an integer selected from 0, 1, 2, 3, 4, or 5, wherein where two instances of r occur on the same R^2 group, the total of both r values combined does not exceed 5;

each instance of R^{12}, when present and attached to an N ring member, independently is C_{1-6}alkyl, C_{1-6}haloalkyl, C_{1-6}alkylene-OH, or C_{1-6}alkylene-O-C_{1-6}alkyl; and

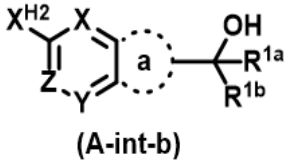
each instance of R^{12}, when present and attached to a C ring member, independently is -OH, oxo, -N(R^b)$_2$, C_{1-6} alkyl, C_{1-6} haloalkyl, C_{1-6} alkoxy, C_{1-6}alkylene-OH, or C_{1-6}alkylene-O-C_{1-6}alkyl;

where each instance of R^b, where present, independently is -H or C_{1-6} alkyl; or, alternatively, two R^b substituents together form a heterocyclyl having 3 to 6 ring members; and

wherein, when R^b is C_{1-6} alkyl or, alternatively, two R^b substituents together form a heterocyclyl having 3 to 6 ring members, then R^b may be unsubstituted or substituted with one or more substituents, each of which independently is -F, -Cl, -OH, or C_{1-3} alkoxy.

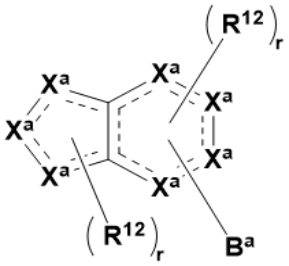
52. A compound or salt of claim 1, made by a method comprising:

performing a Suzuki coupling between a compound of Formula (A-int-b)



(A-int-b) (A-int-b)

and a compound of Formula (R2-B):



(R2-B);

where

X^H is a -Br or -Cl;

B^a is a boronic acid group or a boronic ester group;

"----" indicates a double bond or single bond may be present;

each instance of X^a independently is nitrogen, oxygen, or carbon;

each instance of r, where present, is an integer selected from 0, 1, 2, 3, 4, or 5, wherein where two instances of r occur on the same R^2 group, the total of both r values combined does not exceed 5;

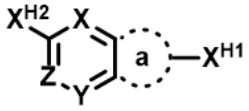
each instance of R^{12}, when present and attached to an N ring member, independently is C_{1-6}alkyl, C_{1-6}haloalkyl, C_{1-6}alkylene-OH, or C_{1-6}alkylene-O-C_{1-6}alkyl; and

each instance of R^{12}, when present and attached to a C ring member, independently is -OH, oxo, -N(R^b)$_2$, C_{1-6} alkyl, C_{1-6} haloalkyl, C_{1-6} alkoxy, C_{1-6}alkylene-OH, or C_{1-6}alkylene-O-C_{1-6} alkyl;

where each instance of R^b, where present, independently is -H or C_{1-6} alkyl; or, alternatively, two R^b substituents together form a heterocyclyl having 3 to 6 ring members; and

wherein, when R^b is C_{1-6} alkyl or, alternatively, two R^b substituents together form a heterocyclyl having 3 to 6 ring members, then R^b may be unsubstituted or substituted with one or more substituents, each of which independently is -F, -Cl, -OH, or C_{1-3} alkoxy.

53. A method of manufacturing the compound or salt of claim 1, the method comprising using a compound of Formula (A-int-a) as an intermediate:



(A-int-a)

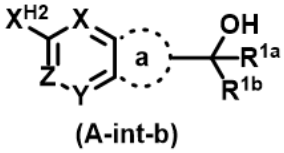
or a pharmaceutically acceptable salt of said compound;

where

X^{H1} is -Cl, -Br, or -I; and

X^{H2} is -Cl, -Br, -OTf, -OTs, or -OMs.

54. A method of manufacturing the compound or salt of claim 1, the method comprising using a compound of Formula (A-int-b) as an intermediate:



(A-int-b)

where X^{H2} is -Cl, -Br, -OTf, -OTs, or -OMs.