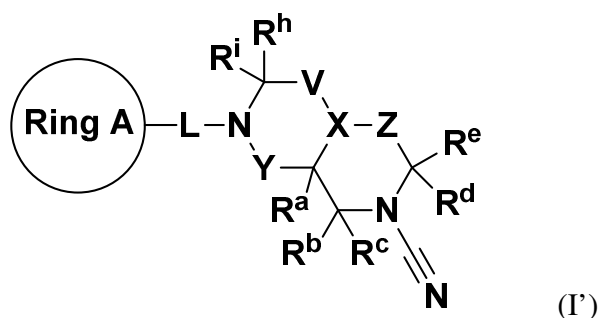


CLAIMS

1. A compound of Formula (I'):



or a pharmaceutically acceptable salt thereof, wherein:

X is selected from N and CR^x;

V, Y, and Z are selected from (i), (ii), or (iii);

(i) V is C(O); Y is selected from a bond, C(O), and CR^jR^k; and Z is selected from C(O) and CR^jR^k;

(ii) V is selected from a bond, C(O), and CR^fR^g; Y is C(O); and Z is selected from C(O) and CR^jR^k; or

(iii) V is selected from a bond, C(O), and CR^fR^g; Y is selected from a bond, C(O), and CR^jR^k; and Z is C(O);

L is -(CH₂)_n-;

n is 0, 1, 2, or 3,

wherein each methylene unit of L is optionally substituted with one or two C₁-C₆ alkyl, and

wherein if n is 2 or 3, then one methylene unit of L is optionally replaced with a heteroatom

selected from nitrogen, oxygen, and sulfur;

each occurrence of R^a, R^b, R^c, R^d, R^e, R^f, R^g, R^h, Rⁱ, R^j, R^k, and R^x is independently selected from

hydrogen, halogen, -OR, -NR₂, -CN, -SR, optionally substituted C₁-C₆ aliphatic, optionally

substituted C₃-C₆ cycloalkyl, or optionally substituted 3- to 6-membered heterocyclyl containing

1 to 3 heteroatoms selected from nitrogen, oxygen, and sulfur;

or R^b and R^c, or R^d and R^e, or R^f and R^g, or R^h and Rⁱ, or R^j and R^k, or a combination thereof,

combine with the carbon to which they are attached to form an optionally substituted C₃-C₆

cycloalkyl or an optionally substituted 3- to 6-membered heterocyclyl containing 1 to 3

heteroatoms selected from nitrogen, oxygen, and sulfur;

wherein an optionally substituted R^a, R^b, R^c, R^d, R^e, R^f, R^g, R^h, Rⁱ, R^j, R^k, and R^x group may be

substituted with one or more R¹;

Ring A is selected from C₃-C₁₃ cycloalkyl, 3- to 13-membered heterocyclyl containing 1 to 3 heteroatoms selected from nitrogen, oxygen, and sulfur, phenyl, C₁₀ aryl, and 5- to 10-membered heteroaryl containing 1 to 3 heteroatoms selected from nitrogen, oxygen, and sulfur, wherein Ring A is optionally substituted with one or more W;

each W is independently selected from halogen, oxo, -OR, -OC(O)R', -NR₂, -NRC(O)R', -NRS(O)₂R', -CN, -NO₂, -SR, -C(O)OR, -C(O)NR₂, -S(O)₂R', -S(O)₂NR₂, optionally substituted C₁-C₆ aliphatic, optionally substituted C₃-C₁₀ cycloalkyl, optionally substituted 3- to 10-membered heterocyclyl containing 1 to 3 heteroatoms selected from nitrogen, oxygen, and sulfur, optionally substituted phenyl, optionally substituted C₁₀ aryl, and optionally substituted 5- to 10-membered heteroaryl containing 1 to 3 heteroatoms selected from nitrogen, oxygen, and sulfur,

wherein an optionally substituted W group may be substituted with one or more R¹;

each R¹ is independently selected from oxo, halogen, -OR, -OC(O)R', -NR₂, -NRC(O)R', -NRS(O)₂R', -CN, -NO₂, -SR, -C(O)OR, -C(O)NR₂, -S(O)₂R', -S(O)₂NR₂, C₁-C₆ aliphatic, C₁-C₆ haloaliphatic, -(CH₂)_m(C₃-C₁₀cycloalkyl), -(CH₂)_m(3- to 10-membered heterocyclyl containing 1 to 3 heteroatoms selected from nitrogen, oxygen, and sulfur), -(CH₂)_m(phenyl), -(CH₂)_m(C₁₀aryl), and -(CH₂)_m(5- to 10-membered heteroaryl containing 1 to 3 heteroatoms selected from nitrogen, oxygen, and sulfur);

each R is independently selected from hydrogen, C₁-C₆ aliphatic, C₁-C₆ haloaliphatic, C₃-C₆ cycloalkyl, 3- to 6-membered heterocyclyl containing 1 to 3 heteroatoms selected from nitrogen, oxygen, and sulfur, phenyl, and 5- to 6-membered heteroaryl containing 1 to 3 heteroatoms selected from nitrogen, oxygen, and sulfur;

each R' is independently selected from C₁-C₆ aliphatic, C₁-C₆ haloaliphatic, C₃-C₆ cycloalkyl, 3- to 6-membered heterocyclyl containing 1 to 3 heteroatoms selected from nitrogen, oxygen, and sulfur, phenyl, and 5- to 6-membered heteroaryl containing 1 to 3 heteroatoms selected from nitrogen, oxygen, and sulfur; and

each m is independently 0, 1, or 2.

2. The compound of claim 1, wherein:

(a) Y is selected from C(O) and CR^jR^k;

n is 0, 1, or 2,

wherein each methylene unit of L is optionally substituted with one C₁-C₆ alkyl, and

wherein if n is 2, then one methylene unit of L is optionally replaced with an oxygen;

each occurrence of R^a , R^b , R^c , R^d , R^e , R^f , R^g , R^h , R^i , R^j , R^k , and R^x is independently selected from hydrogen, halogen, and C_1 - C_6 alkyl;

Ring A is selected from C_3 - C_{10} cycloalkyl, 3- to 10-membered heterocyclyl containing 1 to 3 heteroatoms selected from nitrogen, oxygen, and sulfur, phenyl, and 5- to 10-membered heteroaryl containing 1 to 3 heteroatoms selected from nitrogen and sulfur, wherein Ring A is optionally substituted with one or more W;

each W is independently selected from halogen, -OR, -CN, optionally substituted C_1 - C_6 alkyl, optionally substituted C_3 - C_{10} cycloalkyl, optionally substituted 3- to 10-membered heterocyclyl containing 1 to 3 heteroatoms selected from nitrogen, oxygen, and sulfur, optionally substituted phenyl, and optionally substituted 5- to 10-membered heteroaryl containing 1 to 3 heteroatoms selected from nitrogen, oxygen, and sulfur,

wherein an optionally substituted W group may be substituted with one or more R^l ;

each R^l is independently selected from halogen, -OR, -CN, -NO₂, C_1 - C_6 alkyl, C_1 - C_6 haloalkyl, $-(CH_2)_m(C_3-C_{10} \text{cycloalkyl})$, $-(CH_2)_m(3\text{- to }10\text{-membered heterocyclyl containing 1 to 3 heteroatoms selected from nitrogen, oxygen, and sulfur})$, and $-(CH_2)_m(C_6\text{aryl})$;

each R is independently selected from hydrogen, C_1 - C_6 alkyl, C_1 - C_6 haloalkyl, and phenyl; and

each m is independently 0 or 1; and/or

(b) Y is selected from C(O) and CR^jR^k ;

n is 0;

R^a is selected from hydrogen, halogen, and C_1 - C_6 alkyl;

R^b , R^c , R^d , R^e , R^f , R^g , R^h , R^i , R^j , R^k , and R^x are each hydrogen;

Ring A is 5- to 10-membered heteroaryl containing 1 to 3 heteroatoms selected from nitrogen, oxygen, and sulfur,

wherein Ring A is optionally substituted with one or more W;

each W is independently selected from halogen, optionally substituted C_1 - C_6 alkyl, optionally substituted C_3 - C_{10} cycloalkyl, optionally substituted 3- to 10-membered heterocyclyl containing 1 to 3 heteroatoms selected from nitrogen, oxygen, and sulfur, and optionally substituted phenyl, wherein an optionally substituted W group may be substituted with one or more R^l ;

each R^l is independently selected from halogen, -OR, -CN, $-(CH_2)_m(3\text{- to }10\text{-membered heterocyclyl containing 1 to 3 heteroatoms selected from nitrogen, oxygen, and sulfur})$, and $-(CH_2)_m(C_6\text{aryl})$;

each R is phenyl; and

each m is 1; and/or

(c) V is selected from C(O) and CR^fR^g;

X is N;

Y is C(O);

n is 0;

R^a is hydrogen;

R^b, R^c, R^d, R^e, R^f, R^g, R^h, Rⁱ, R^j, R^k, and R^x are each hydrogen;

Ring A is 5-membered heteroaryl containing 1 to 3 heteroatoms selected from nitrogen and sulfur,

wherein Ring A is optionally substituted with one or more W;

each W is independently selected from halogen, optionally substituted C₁-C₆ alkyl, optionally substituted C₃-C₁₀ cycloalkyl, optionally substituted 3- to 10-membered heterocyclyl containing 1 to 3 heteroatoms selected from nitrogen, oxygen, and sulfur, and optionally substituted phenyl, wherein an optionally substituted W group may be substituted with one or more R^l;

each R^l is independently selected from halogen, -OR, -CN, and -(CH₂)_m(phenyl);

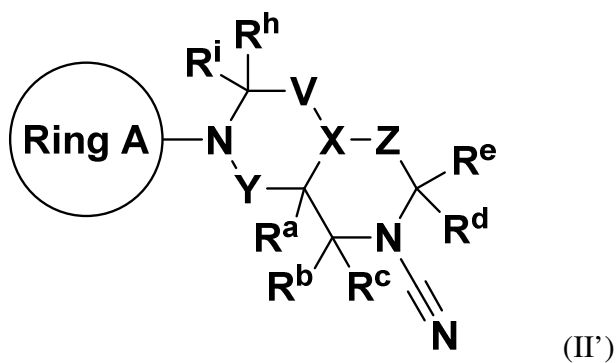
each R is phenyl; and

each m is 1; and/or

(d) L is selected from -(CH₂)₀-, -CH₂-, -CH₂CH₂-, -CH₂CH(CH₃)-, and -CH₂CH(CH₃)O-; and/or

(e) n is 0; and/or

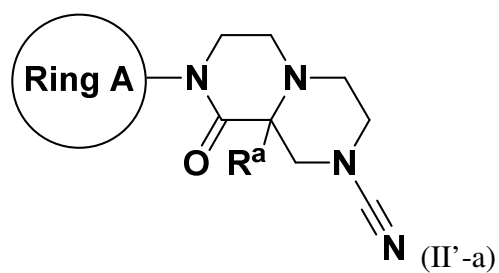
(f) the compound is of formula (II'):



or a pharmaceutically acceptable salt thereof.

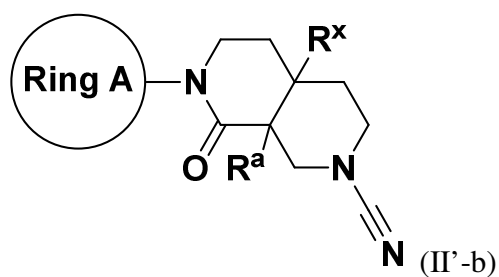
3. The compound of any one of claims 1-2, wherein the compound is:

(a) of formula (II'-a):



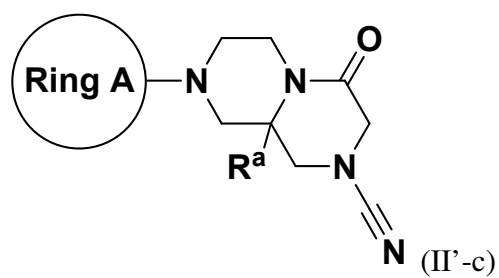
or a pharmaceutically acceptable salt thereof; or

(b) of formula (II'-b):



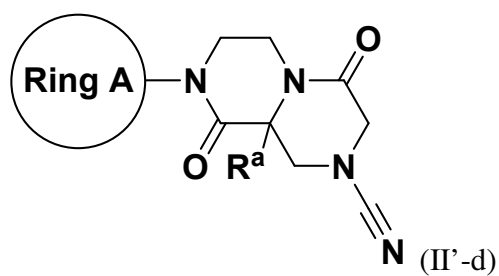
or a pharmaceutically acceptable salt thereof; or

(c) of formula (II'-c):



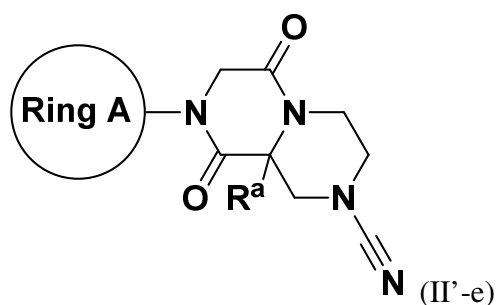
or a pharmaceutically acceptable salt thereof; or

(d) of formula (II'-d):



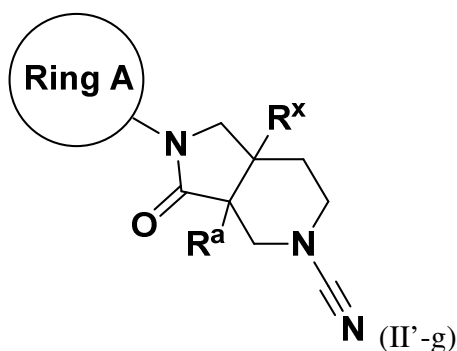
or a pharmaceutically acceptable salt thereof; or

(e) of formula (II'-e):



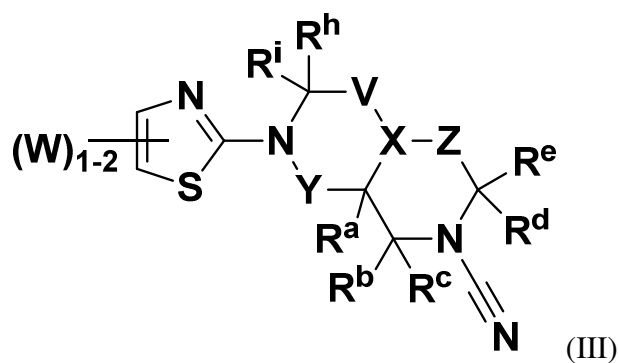
or a pharmaceutically acceptable salt thereof; or

(f) of formula (II'-g):



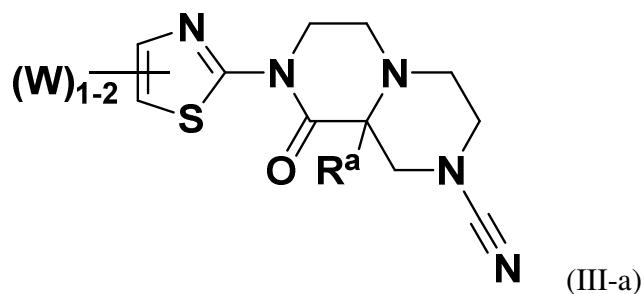
or a pharmaceutically acceptable salt thereof.

4. The compound of any one of claims 1-3, wherein:
 - (a) Ring A is selected from C₃-C₁₀ cycloalkyl, 3- to 10-membered heterocyclyl containing 1 to 3 heteroatoms selected from nitrogen, oxygen, and sulfur, phenyl, and 5- to 10-membered heteroaryl containing 1 to 3 heteroatoms selected from nitrogen and sulfur, wherein Ring A is optionally substituted with one or more W; and/or
 - (b) Ring A is optionally substituted 5- to 6-membered heteroaryl containing 1 to 3 heteroatoms selected from nitrogen and sulfur; and/or
 - (c) Ring A is optionally substituted 5-membered heteroaryl containing 1 to 3 heteroatoms selected from nitrogen and sulfur; and/or
 - (d) Ring A is optionally substituted thiazolyl or pyrazolyl.
5. The compound of any one of claims 1-4, wherein the compound is:
 - (a) of formula (III):

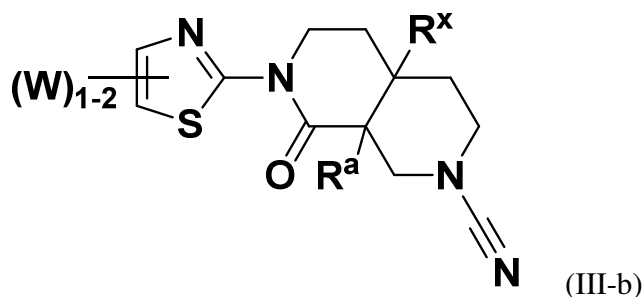


or a pharmaceutically acceptable salt thereof,
optionally wherein the compound is:

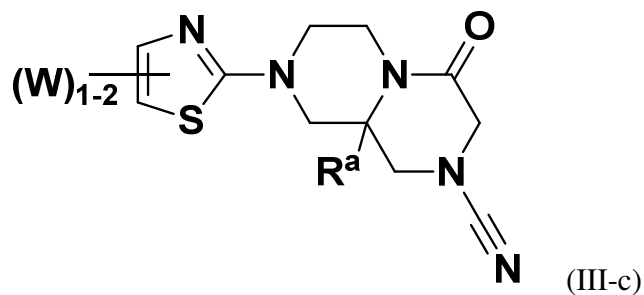
(i) of formula (III-a):



or a pharmaceutically acceptable salt thereof; or
(ii) of formula (III-b):

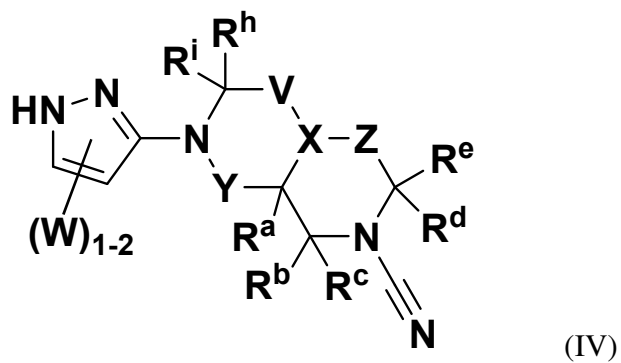


or a pharmaceutically acceptable salt thereof; or
(iii) of formula (III-c):



or a pharmaceutically acceptable salt thereof; or

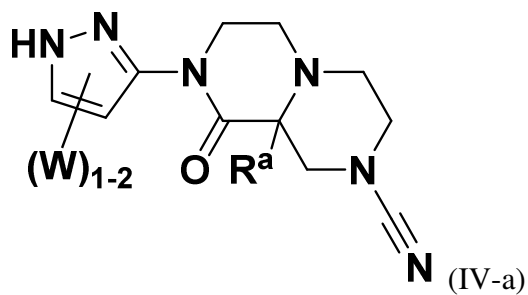
(b) of formula (IV):



or a pharmaceutically acceptable salt thereof,

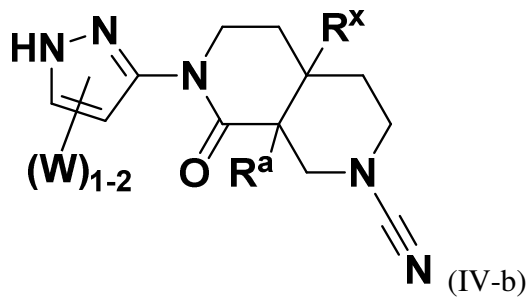
optionally herein the compound is:

(i) of formula (IV-a):



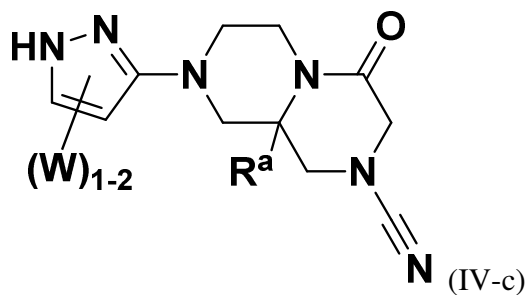
or a pharmaceutically acceptable salt thereof; or

(ii) of formula (IV-b):



or a pharmaceutically acceptable salt thereof; or

(iii) of formula (IV-c):

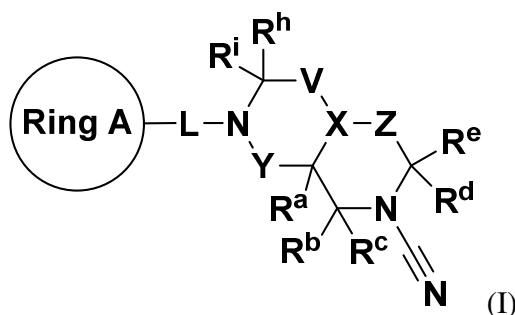


or a pharmaceutically acceptable salt thereof.

6. The compound of any one of claims 1-5, wherein:
- (a) each occurrence of R^a , R^b , R^c , R^d , R^e , R^f , R^g , R^h , R^i , R^j , R^k , and R^x is independently selected from hydrogen, halogen, and C_1 - C_6 alkyl; and/or
 - (b) R^a is selected from hydrogen, halogen, and C_1 - C_6 alkyl; and/or
 - (c) each occurrence of R^b , R^c , R^d , R^e , R^f , R^g , R^h , R^i , R^j , R^k , and R^x is hydrogen; and/or
 - (d) R^a is hydrogen.
7. The compound of any one of claims 1-6, wherein:
- (a) each W is independently selected from halogen, -OR, -CN, optionally substituted C_1 - C_6 alkyl, optionally substituted C_3 - C_{10} cycloalkyl, optionally substituted 3- to 10-membered heterocyclyl containing 1 to 3 heteroatoms selected from nitrogen, oxygen, and sulfur, optionally substituted phenyl, and optionally substituted 5- to 10-membered heteroaryl containing 1 to 3 heteroatoms selected from nitrogen, oxygen, and sulfur; and/or
 - (b) each W is independently selected from halogen, optionally substituted C_1 - C_6 alkyl, optionally substituted C_3 - C_{10} cycloalkyl, optionally substituted 3- to 10-membered heterocyclyl containing 1 to 3 heteroatoms selected from nitrogen, oxygen, and sulfur, and optionally substituted phenyl; and/or
 - (c) each W is independently selected from halogen, C_1 - C_6 alkyl, C_3 - C_6 cycloalkyl, optionally substituted 5- to 6-membered heterocyclyl containing 1 to 3 heteroatoms selected from nitrogen, oxygen, and sulfur, and optionally substituted phenyl; and/or
 - (d) each W is independently selected from chloro, tert-butyl, cyclohexyl, 2-benzylpiperidinyl, phenyl, 3-cyanophenyl, 3-chlorophenyl, 2-phenoxyphenyl, and 3-(azetidin-1-ylmethyl)phenyl.
8. The compound of any one of claims 1-7, wherein:
- (a) each R^1 is independently selected from halogen, -OR, -CN, -NO₂, C_1 - C_6 alkyl, C_1 - C_6 haloalkyl, $-(CH_2)_m(C_3$ - C_{10} cycloalkyl), $-(CH_2)_m$ (3- to 10-membered heterocyclyl containing 1 to 3 heteroatoms selected from nitrogen, oxygen, and sulfur), and $-(CH_2)_m$ (phenyl); and/or
 - (b) each R^1 is independently selected from halogen, -OR, -CN, $-(CH_2)_m$ (3- to 6-membered heterocyclyl containing 1 to 3 heteroatoms selected from nitrogen, oxygen, and sulfur), and $-(CH_2)_m$ (phenyl); and/or

- (c) each R^1 is independently halogen, -OR, -CN, and $-(CH_2)_m(\text{phenyl})$; and/or
- (d) each R is independently selected from hydrogen, C_1 - C_6 alkyl, and phenyl; and/or
- (e) each R is phenyl; and/or
- (f) each R' is C_1 - C_6 alkyl; and/or
- (g) each m is 0 or 1; and/or
- (h) each m is 1.

9. A compound of Formula (I):



and pharmaceutically acceptable forms thereof, wherein:

V is selected from a bond and CR^fR^g ;

X is selected from N and CR^x ;

Y is selected from a bond, carbonyl ($C=O$), and CR^jR^k ;

Z is selected from a carbonyl ($C=O$), and CR^jR^k ;

L is $-(CH_2)_n-$, $n = 0, 1, 2, 3$, wherein if n is 2 or 3, then L can be optionally substituted or interrupted with one or two alkyls and/or heteroatoms;

R^a and R^x are hydrogen;

one of R^b and R^c is hydrogen, and the other is selected from hydrogen, alkyl, and heteroalkyl groups optionally substituted with R^1 ;

one of R^d and R^e is hydrogen, and the other is selected from hydrogen, alkyl, and heteroalkyl groups optionally substituted with R^1 ;

one of R^f and R^g is hydrogen, and the other is selected from hydrogen, alkyl and heteroalkyl groups optionally substituted with R^1 , or alternatively, R^f and R^g combine to form a carbonyl;

one of R^h and R^i is hydrogen, and the other is selected from hydrogen, alkyl, and heteroalkyl groups optionally substituted with R^1 ; and

one of R^j and R^k is hydrogen, and the other is selected from hydrogen, alkyl and heteroalkyl groups optionally substituted with R^1 ;

Ring A is selected from 4- to 13-membered cycloalkyl and heterocycloalkyl groups, and 5- to 10-membered aryl and heteroaryl groups, the groups being unsubstituted or substituted with at least one W group;

W is chosen from hydrogen, halogen, cyano groups, C₁-C₆ alkyl groups, C₁-C₆ alkyl ester groups, 3- to 10-membered cycloalkyl and heterocycloalkyl groups, and 5- to 10-membered aryl and heteroaryl groups, the groups being unsubstituted, or substituted with at least one R¹ group, which can be the same or different; and

R¹ is independently selected from hydrogen, halogen, hydroxy groups, cyano groups, amides, amines, C₁-C₆ alkyl groups, C₁-C₆ alkyl esters, C₁-C₆ alkyl amines, C₁-C₆ alkyl alcohols, C₃-C₆ cycloalkyl groups, S(O)₂ groups, and trifluoromethyl and trifluoromethylester groups.

10. The compound of claim 9, wherein:

(a) Ring A is selected from 5- to 10-membered cycloalkyl and heterocycloalkyl groups, and 5- to 10-membered heteroaryl groups, the groups being unsubstituted or substituted with at least one W group; and/or

(b) one of R^b and R^c is hydrogen, and the other is selected from hydrogen, C₁-C₆ linear or branched alkyl groups, and C₁-C₆ linear or branched heteroalkyl groups, the groups optionally substituted with R¹;

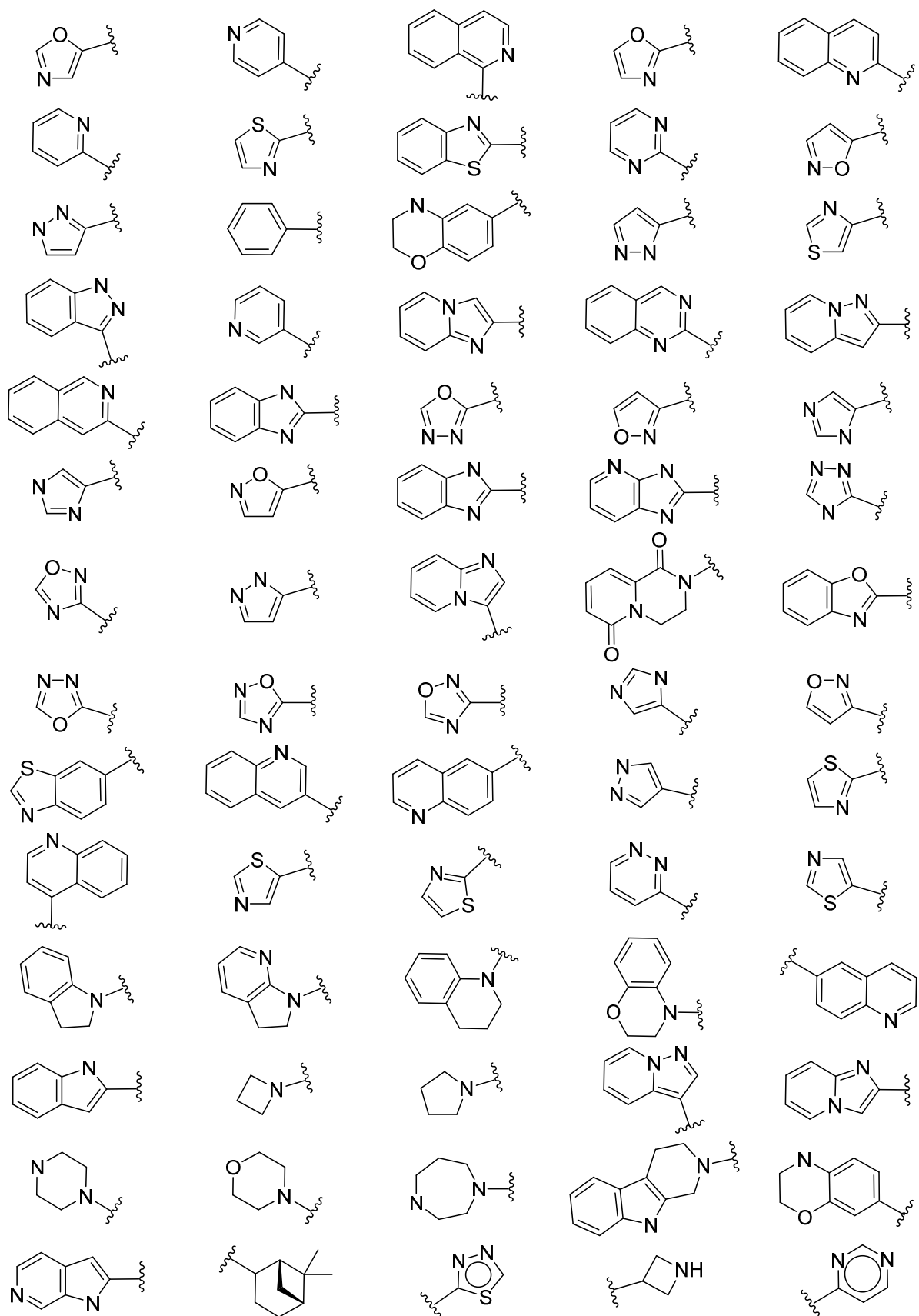
one of R^d and R^e is hydrogen, and the other is selected from hydrogen, C₁-C₆ linear or branched alkyl groups, and C₁-C₆ linear or branched heteroalkyl groups, the groups optionally substituted with R¹;

one of R^f and R^g is hydrogen, and the other is selected from hydrogen, C₁-C₆ linear or branched alkyl groups, and C₁-C₆ linear or branched heteroalkyl groups, the groups optionally substituted with R¹, or alternatively, they form a carbonyl;

one of R^h and Rⁱ is hydrogen, and the other is selected from hydrogen, C₁-C₆ linear or branched alkyl groups, and C₁-C₆ linear or branched heteroalkyl groups, the groups optionally substituted with R¹; and

one of R^j and R^k is hydrogen, and the other is selected from hydrogen, C₁-C₆ linear or branched alkyl groups and C₁-C₆ linear or branched heteroalkyl groups, the groups optionally substituted with R¹; and/or

(c) Ring A is selected from:



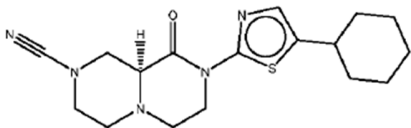
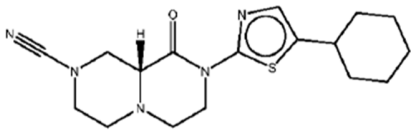
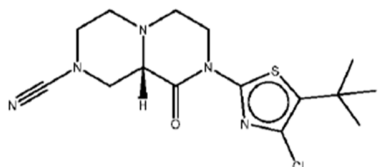
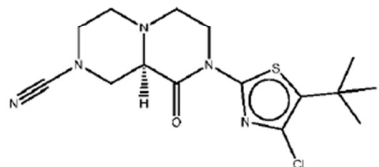
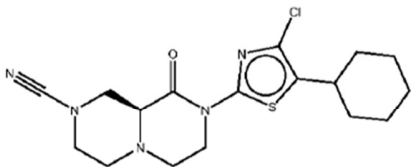
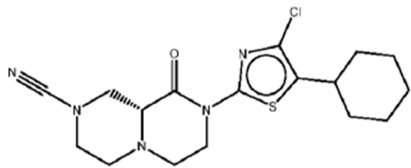
the groups being optionally substituted with at least one W group; and/or

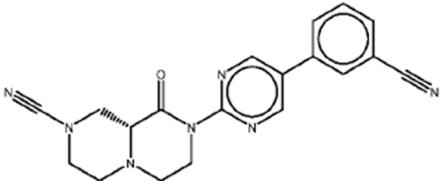
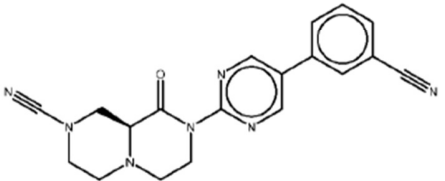
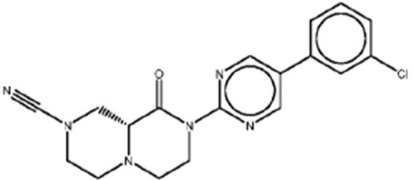
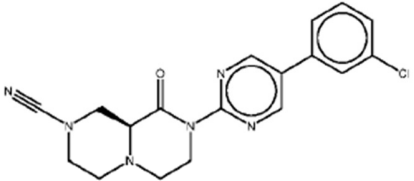
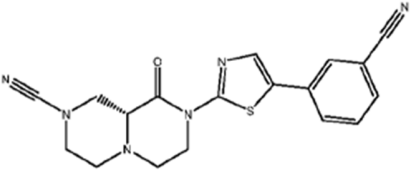
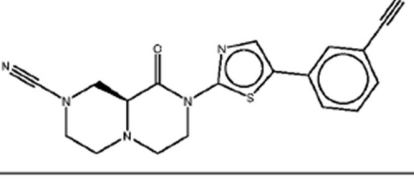
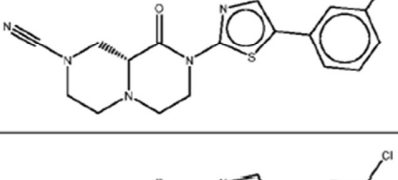
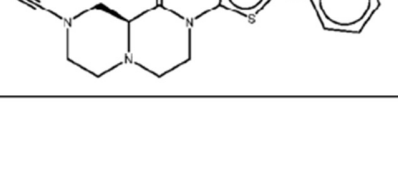
(d) W is selected from hydrogen, halogen, cyano groups, alkyl groups, alkyl ester groups, cycloalkyl, heterocycloalkyl, aryl, and heteroaryl groups, the groups being unsubstituted, or substituted with at least one R¹ group, which can be the same or different; and/or

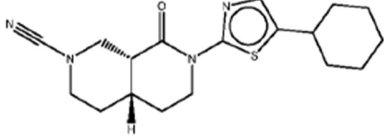
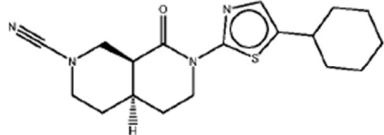
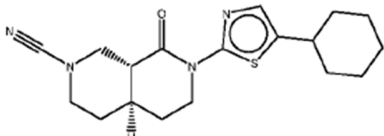
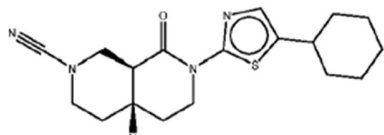
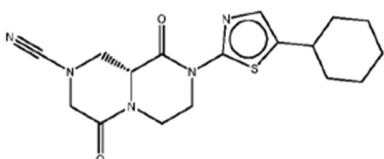
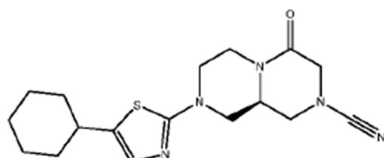
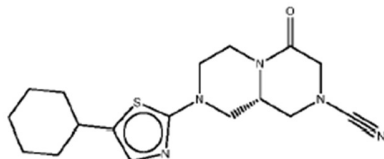
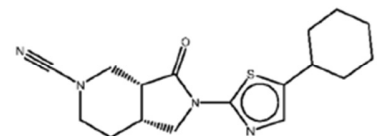
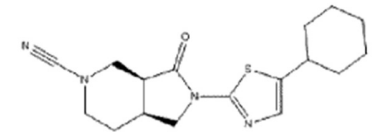
(e) R¹ is independently selected from hydrogen, amides, C₁-C₆ alkyl groups, C₁-C₆ alkyl esters, and trifluoromethyl and trifluoromethylester groups.

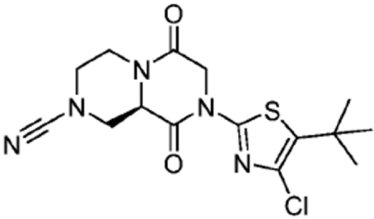
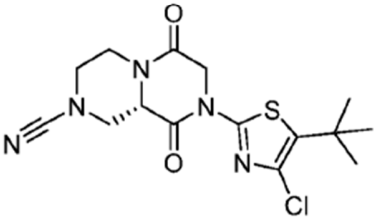
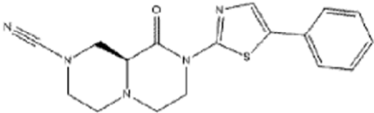
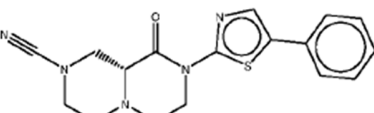
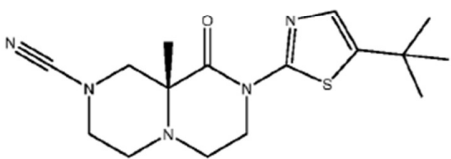
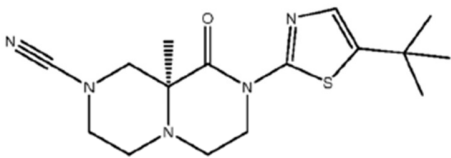
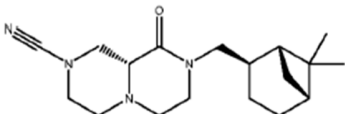
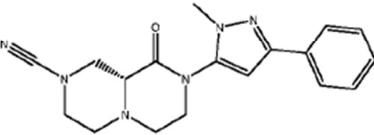
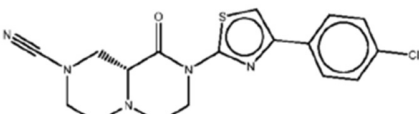
11. The compound of claim 1, wherein the compound is selected from:

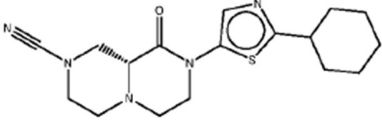
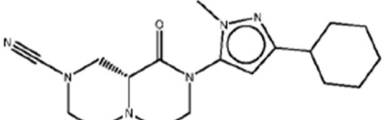
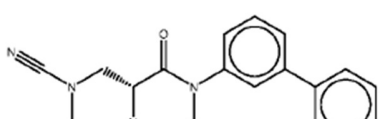
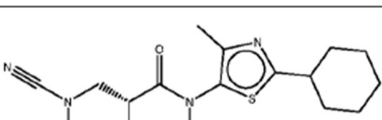
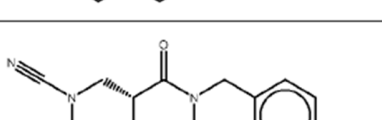
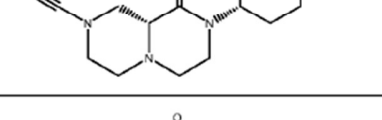
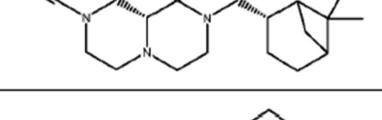
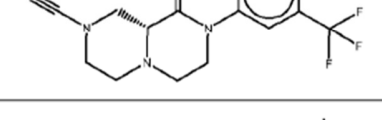
(a)

	(S)-8-(5-cyclohexylthiazol-2-yl)-9-oxooctahydro-2H-pyrazino [1,2-a]pyrazine-2-carbonitrile
	(R)-8-(5-cyclohexylthiazol-2-yl)-9-oxooctahydro-2H-pyrazino [1,2-a]pyrazine-2-carbonitrile
	*(S)-8-(5-(tert-butyl)-4-chlorothiazol-2-yl)-9-oxooctahydro-2H- pyrazino[1,2-a]pyrazine-2-carbonitrile
	*(R)-8-(5-(tert-butyl)-4-chlorothiazol-2-yl)-9-oxooctahydro- 2H-pyrazino[1,2-a]pyrazine-2-carbonitrile
	(S)-8-(4-chloro-5-cyclohexylthiazol-2-yl)-9-oxooctahydro-2H- pyrazino[1,2-a]pyrazine-2-carbonitrile
	(R)-8-(4-chloro-5-cyclohexylthiazol-2-yl)-9-oxooctahydro-2H- pyrazino[1,2-a]pyrazine-2-carbonitrile

	(R)-8-(5-(3-cyanophenyl)pyrimidin-2-yl)-9-oxooctahydro-2H-pyrazino[1,2-a]pyrazine-2-carbonitrile
	(S)-8-(5-(3-cyanophenyl)pyrimidin-2-yl)-9-oxooctahydro-2H-pyrazino[1,2-a]pyrazine-2-carbonitrile
	(R)-8-(5-(3-chlorophenyl)pyrimidin-2-yl)-9-oxooctahydro-2H-pyrazino[1,2-a]pyrazine-2-carbonitrile
	(S)-8-(5-(3-chlorophenyl)pyrimidin-2-yl)-9-oxooctahydro-2H-pyrazino[1,2-a]pyrazine-2-carbonitrile
	(R)-8-(5-(3-cyanophenyl)thiazol-2-yl)-9-oxooctahydro-2H-pyrazino[1,2-a]pyrazine-2-carbonitrile
	(S)-8-(5-(3-cyanophenyl)thiazol-2-yl)-9-oxooctahydro-2H-pyrazino[1,2-a]pyrazine-2-carbonitrile
	(R)-8-(5-(3-chlorophenyl)thiazol-2-yl)-9-oxooctahydro-2H-pyrazino[1,2-a]pyrazine-2-carbonitrile
	(S)-8-(5-(3-chlorophenyl)thiazol-2-yl)-9-oxooctahydro-2H-pyrazino[1,2-a]pyrazine-2-carbonitrile

	(4aS,8aR)-7-(5-cyclohexylthiazol-2-yl)-8-oxooctahydro-2,7-naphthyridine-2(1H)-carbonitrile
	(4aR,8aS)-7-(5-cyclohexylthiazol-2-yl)-8-oxooctahydro-2,7-naphthyridine-2(1H)-carbonitrile
	(4aR,8aR)-7-(5-cyclohexylthiazol-2-yl)-8-oxooctahydro-2,7-naphthyridine-2(1H)-carbonitrile
	(4aS,8aS)-7-(5-cyclohexylthiazol-2-yl)-8-oxooctahydro-2,7-naphthyridine-2(1H)-carbonitrile
	(R)-8-(5-cyclohexylthiazol-2-yl)-4,9-dioxooctahydro-2H-pyrazino[1,2-a]pyrazine-2-carbonitrile
	(S)-8-(5-cyclohexylthiazol-2-yl)-4-oxooctahydro-2H-pyrazino[1,2-a]pyrazine-2-carbonitrile
	(R)-8-(5-cyclohexylthiazol-2-yl)-4-oxooctahydro-2H-pyrazino[1,2-a]pyrazine-2-carbonitrile
	(3aR,7aR)-2-(5-cyclohexylthiazol-2-yl)-3-oxooctahydro-5H-pyrrolo[3,4-c]pyridine-5-carbonitrile
	(3aS,7aS)-2-(5-cyclohexylthiazol-2-yl)-3-oxooctahydro-5H-pyrrolo[3,4-c]pyridine-5-carbonitrile

	(R)-8-(5-(tert-butyl)-4-chlorothiazol-2-yl)-6,9-dioxooctahydro-2H-pyrazino[1,2-a]pyrazine-2-carbonitrile
	(S)-8-(5-(tert-butyl)-4-chlorothiazol-2-yl)-6,9-dioxooctahydro-2H-pyrazino[1,2-a]pyrazine-2-carbonitrile
	*(S)-9-oxo-8-(5-phenylthiazol-2-yl)octahydro-2H-pyrazino[1,2-a]pyrazine-2-carbonitrile
	*(R)-9-oxo-8-(5-phenylthiazol-2-yl)octahydro-2H-pyrazino[1,2-a]pyrazine-2-carbonitrile
	(R)-8-(5-(tert-butyl)thiazol-2-yl)-9-oxooctahydro-2H-pyrazino[1,2-a]pyrazine-2-carbonitrile
	(S)-8-(5-(tert-butyl)thiazol-2-yl)-9a-methyl-9-oxooctahydro-2H-pyrazino[1,2-a]pyrazine-2-carbonitrile
	(R)-8-(((1R,2R,5R)-6,6-dimethylbicyclo[3.1.1]hepta n-2-yl)methyl)-9-oxooctahydro-2H-pyrazino[1,2-a]pyrazine-2-carbonitrile
	(R)-8-(1-methyl-3-phenyl-1H-pyrazol-5-yl)-9-oxooctahydro-2H-pyrazino[1,2-a]pyrazine-2-carbonitrile
	(R)-8-(4-(4-chlorophenyl)thiazol-2-yl)-9-oxooctahydro-2H-pyrazino[1,2-a]pyrazine-2-carbonitrile

	(R)-8-(2-cyclohexylthiazol-5-yl)-9-oxooctahydro-2H-pyrazino [1,2-a]pyrazine-2-carbonitrile
	(R)-8-(3-cyclohexyl-1-methyl-1H-pyrazol-5-yl)-9- oxooctahydro-2H-pyrazino[1,2-a]pyrazine-2-carbonitrile
	(R)-8-([1,1'-biphenyl]-3-yl)-9-oxooctahydro-2H-pyrazino [1,2- a]pyrazine-2-carbonitrile
	(R)-8-(2-cyclohexyl-4-methylthiazol-5-yl)-9-oxooctahydro-2H- pyrazino[1,2-a]pyrazine-2-carbonitrile
	(R)-8-(4-isopropylbenzyl)-9-oxooctahydro-2H-pyrazino [1,2-a] pyrazine-2-carbonitrile
	(R)-8-((1s,4S)-4-(tert-butyl)cyclohexyl)-9-oxooctahydro-2H- pyrazino[1,2-a]pyrazine-2-carbonitrile
	(9aR)-8-(((2S)-6,6-dimethylbicyclo[3.1.1]hepta n-2-yl)methyl)- 9-oxooctahydro-2H-pyrazino[1,2-a]pyrazine-2-carbonitrile
	(R)-9-oxo-8-(3-(trifluoromethyl)phenyl)octahydro-2H-pyrazino [1,2-a]pyrazine-2-carbonitrile
	(R)-8-(2-(2-isopropoxyphenyl)thiazol-5-yl)-9-oxooctahydro- 2H-pyrazino[1,2-a]pyrazine-2-carbonitrile

	(R)-9-oxo-8-(2-(2-phenoxyphenyl)thiazol-5-yl)octahydro-2H-pyrazino[1,2-a]pyrazine-2-carbonitrile
	(R)-8-(2-(3,3-difluorocyclobutyl)thiazol-5-yl)-9-oxooctahydro-2H-pyrazino[1,2-a]pyrazine-2-carbonitrile
	(R)-9-oxo-8-(4-phenoxyphenyl)octahydro-2H-pyrazino[1,2-a]pyrazine-2-carbonitrile
	(R)-8-(2-((S)-2,2-dimethylcyclohexyl)thiazol-5-yl)-9-oxooctahydro-2H-pyrazino[1,2-a]pyrazine-2-carbonitrile
	(R)-8-(2-((R)-2,2-dimethylcyclohexyl)thiazol-5-yl)-9-oxooctahydro-2H-pyrazino[1,2-a]pyrazine-2-carbonitrile
	(R)-8-(4-chloro-2-cyclohexylthiazol-5-yl)-9-oxooctahydro-2H-pyrazino[1,2-a]pyrazine-2-carbonitrile
	(R)-8-(5-cyclohexyl-4-(methoxymethyl)thiazol-2-yl)-9-oxooctahydro-2H-pyrazino[1,2-a]pyrazine-2-carbonitrile
	(R)-8-(2-cyclohexyl-4-fluorothiazol-5-yl)-9-oxooctahydro-2H-pyrazino[1,2-a]pyrazine-2-carbonitrile
	(R)-8-(4-chloro-3-(trifluoromethyl)phenyl)-9-oxooctahydro-2H-pyrazino[1,2-a]pyrazine-2-carbonitrile

	(R)-8-(5-((1S,2R)-2-methylcyclohexyl)thiazol-2-yl)-9-oxooctahydro-2H-pyrazino[1,2-a]pyrazine-2-carbonitrile
	(R)-8-(5-((1R,2S)-2-methylcyclohexyl)thiazol-2-yl)-9-oxooctahydro-2H-pyrazino[1,2-a]pyrazine-2-carbonitrile
	(R)-8-(5-((1S,2S)-2-methylcyclohexyl)thiazol-2-yl)-9-oxooctahydro-2H-pyrazino[1,2-a]pyrazine-2-carbonitrile
	(R)-8-(5-((1R,2R)-2-methylcyclohexyl)thiazol-2-yl)-9-oxooctahydro-2H-pyrazino[1,2-a]pyrazine-2-carbonitrile
	(R)-8-(5-cyclohexyl-4-cyclopropylthiazol-2-yl)-9-oxooctahydro-2H-pyrazino[1,2-a]pyrazine-2-carbonitrile
	(R)-8-(5-cyclohexyl-4-(2-cyclopropyl-3H-2l4-pyrazol-4-yl)thiazol-2-yl)-9-oxooctahydro-2H-pyrazino[1,2-a]pyrazine-2-carbonitrile
	(R)-9-oxo-8-(4-(trifluoromethyl)pyridin-2-yl)octahydro-2H-pyrazino[1,2-a]pyrazine-2-carbonitrile
	(R)-8-(5-cyclohexyl-4-methylthiazol-2-yl)-9-oxooctahydro-2H-pyrazino[1,2-a]pyrazine-2-carbonitrile
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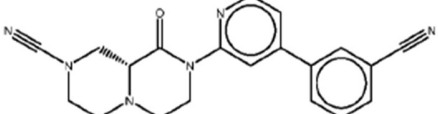
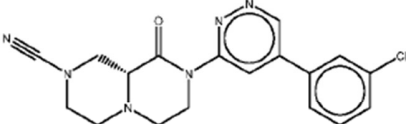
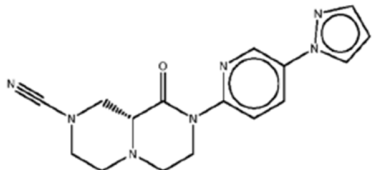
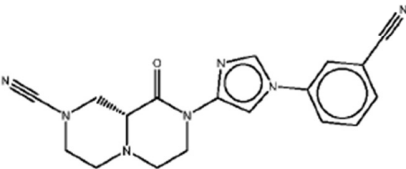
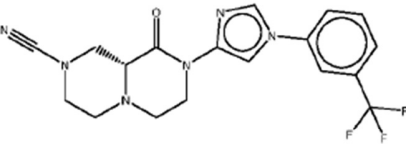
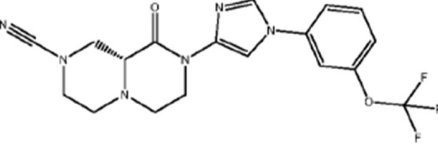
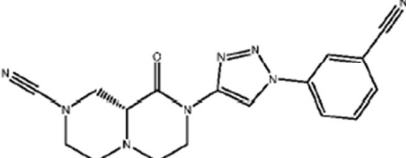
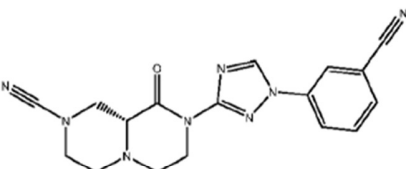
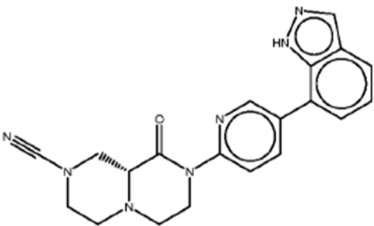
	(R)-8-(5-cyclohexyl-4-(trifluoromethyl)thiazol-2-yl)-9-oxooctahydro-2H-pyrazino[1,2-a]pyrazine-2-carbonitrile
	(R)-9-oxo-8-(5-((1S,2R)-2-(trifluoromethyl)cyclohexyl)thiazol-2-yl)octahydro-2H-pyrazino[1,2-a]pyrazine-2-carbonitrile
	(R)-9-oxo-8-(5-((1R,2S)-2-(trifluoromethyl)cyclohexyl)thiazol-2-yl)octahydro-2H-pyrazino[1,2-a]pyrazine-2-carbonitrile
	(R)-9-oxo-8-(5-((1S,2S)-2-(trifluoromethyl)cyclohexyl)thiazol-2-yl)octahydro-2H-pyrazino[1,2-a]pyrazine-2-carbonitrile
	(R)-9-oxo-8-(5-((1R,2R)-2-(trifluoromethyl)cyclohexyl)thiazol-2-yl)octahydro-2H-pyrazino[1,2-a]pyrazine-2-carbonitrile
	(R)-8-(2-(5-(5-methyl-4H-1,2,4-triazol-3-yl)-[1,1'-biphenyl]-2-yl)ethyl)-9-oxooctahydro-2H-pyrazino[1,2-a]pyrazine-2-carbonitrile
	(R)-8-(2-(4'-cyano-5-(5-methyl-4H-1,2,4-triazol-3-yl)-[1,1'-biphenyl]-2-yl)ethyl)-9-oxooctahydro-2H-pyrazino[1,2-a]pyrazine-2-carbonitrile
	(R)-8-(2-(3'-cyano-5-(5-methyl-4H-1,2,4-triazol-3-yl)-[1,1'-biphenyl]-2-yl)ethyl)-9-oxooctahydro-2H-pyrazino[1,2-a]pyrazine-2-carbonitrile

	(R)-8-((3'-cyano-3-methyl-[1,1'-biphenyl]-4-yl)methyl)-9-oxooctahydro-2H-pyrazino[1,2-a]pyrazine-2-carbonitrile
	(R)-8-((3-methyl-3'-nitro-[1,1'-biphenyl]-4-yl)methyl)-9-oxooctahydro-2H-pyrazino[1,2-a]pyrazine-2-carbonitrile
	(R)-8-benzyl-9-oxooctahydro-2H-pyrazino[1,2-a]pyrazine-2-carbonitrile
	(9aR)-8-(2-(4-methoxyphenyl)propyl)-9-oxooctahydro-2H-pyrazino[1,2-a]pyrazine-2-carbonitrile
	(R)-8-(3-chlorophenyl)-9-oxooctahydro-2H-pyrazino[1,2-a]pyrazine-2-carbonitrile
	(R)-8-(6-methoxybenzo[d]thiazol-2-yl)-9-oxooctahydro-2H-pyrazino[1,2-a]pyrazine-2-carbonitrile
	(R)-8-(6-chlorobenzo[d]thiazol-2-yl)-9-oxooctahydro-2H-pyrazino[1,2-a]pyrazine-2-carbonitrile
	(R)-9-oxo-8-(5-phenylpyridin-2-yl)octahydro-2H-pyrazino[1,2-a]pyrazine-2-carbonitrile
	(R)-8-(5-chlorobenzo[d]oxazol-2-yl)-9-oxooctahydro-2H-pyrazino[1,2-a]pyrazine-2-carbonitrile

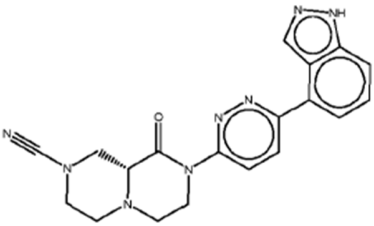
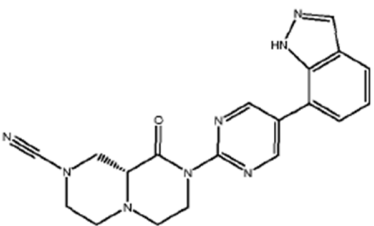
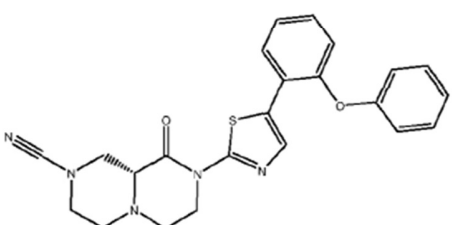
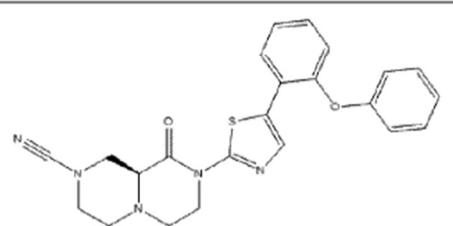
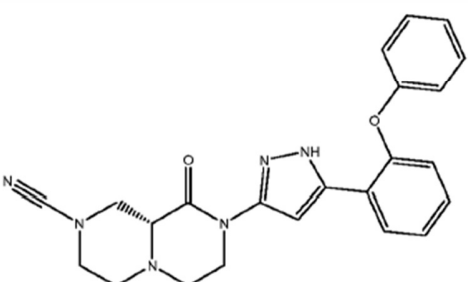
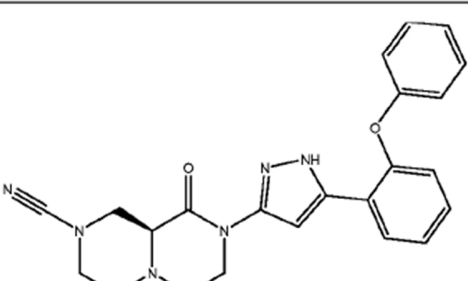
	(R)-8-(3,4-dichlorophenyl)-9-oxooctahydro-2H-pyrazino[1,2-a]pyrazine-2-carbonitrile
	(9aR)-9-oxo-8-(2-phenoxypropyl)octahydro-2H-pyrazino[1,2-a]pyrazine-2-carbonitrile
	(9aR)-8-(2-(3-methoxyphenyl)propyl)-9-oxooctahydro-2H-pyrazino[1,2-a]pyrazine-2-carbonitrile
	(9aR)-8-(2-(3,4-difluorophenyl)propyl)-9-oxooctahydro-2H-pyrazino[1,2-a]pyrazine-2-carbonitrile
	(9aR)-9-oxo-8-(2-phenylpropyl)octahydro-2H-pyrazino[1,2-a]pyrazine-2-carbonitrile
	(R)-8-(3-chloro-4-methylphenyl)-9-oxooctahydro-2H-pyrazino[1,2-a]pyrazine-2-carbonitrile
	(R)-9-oxo-8-(quinolin-3-yl)octahydro-2H-pyrazino[1,2-a]pyrazine-2-carbonitrile
	(9aR)-8-(2-(4-methoxy-3-(1H-pyrazol-5-yl)phenyl)propyl)-9-oxooctahydro-2H-pyrazino[1,2-a]pyrazine-2-carbonitrile
	(9aR)-8-(2-(4-methoxy-3-(1-methyl-1H-pyrazol-5-yl)phenyl)propyl)-9-oxooctahydro-2H-pyrazino[1,2-a]pyrazine-2-carbonitrile
	(R)-9-oxo-8-(5-phenyl-1,3,4-thiadiazol-2-yl)octahydro-2H-pyrazino[1,2-a]pyrazine-2-carbonitrile

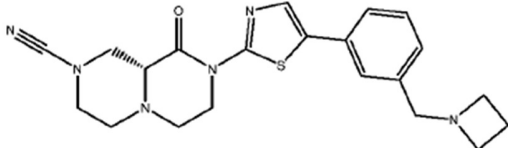
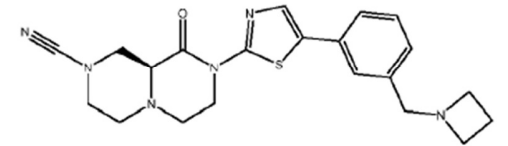
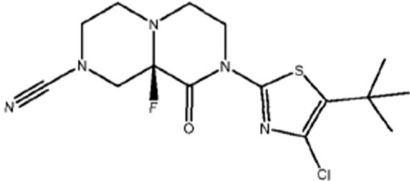
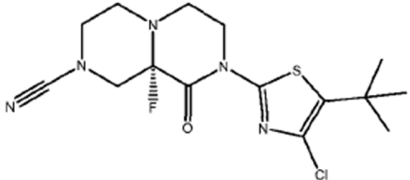
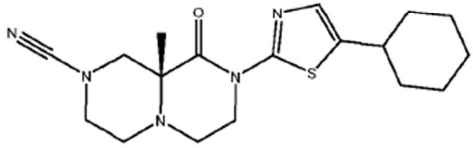
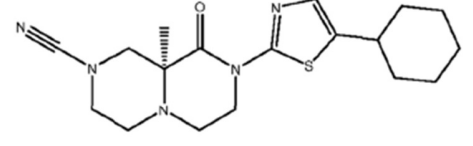
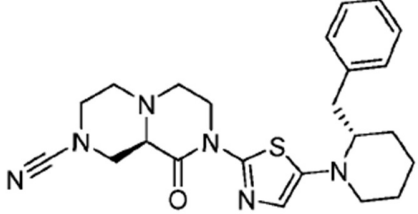
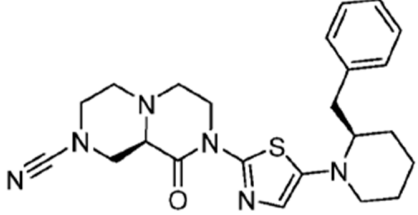
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	(9aR)-8-(2-(4-cyanophenyl)propyl)-9-oxooctahydro-2H-pyrazino[1,2-a]pyrazine-2-carbonitrile
	(9aR)-8-(2-(3-cyanophenyl)propyl)-9-oxooctahydro-2H-pyrazino[1,2-a]pyrazine-2-carbonitrile
	(9aR)-8-(2-(5-cyanopyridin-2-yl)propyl)-9-oxooctahydro-2H-pyrazino[1,2-a]pyrazine-2-carbonitrile
	(9aR)-8-(2-(4-hydroxyphenyl)propyl)-9-oxooctahydro-2H-pyrazino[1,2-a]pyrazine-2-carbonitrile
	(9aR)-8-(2-(4-cyano-3-methylphenyl)propyl)-9-oxooctahydro-2H-pyrazino[1,2-a]pyrazine-2-carbonitrile
	(9aR)-8-(2-(5-isopropoxy-2-pyridinyl)propyl)-9-oxooctahydro-2H-pyrazino[1,2-a]pyrazine-2-carbonitrile
	(9aR)-8-(2-(4-methoxy-3-(1-methyl-1H-pyrazol-4-yl)phenyl)propyl)-9-oxooctahydro-2H-pyrazino[1,2-a]pyrazine-2-carbonitrile
	(9aR)-8-(2-(2-fluoro-3-methoxyphenyl)propyl)-9-oxooctahydro-2H-pyrazino[1,2-a]pyrazine-2-carbonitrile
	(R)-9-oxo-8-(4-phenylpyridin-2-yl)octahydro-2H-pyrazino[1,2-a]pyrazine-2-carbonitrile

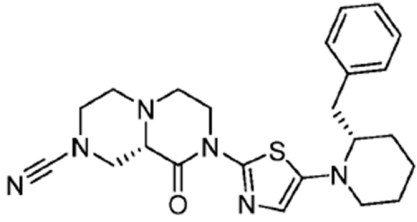
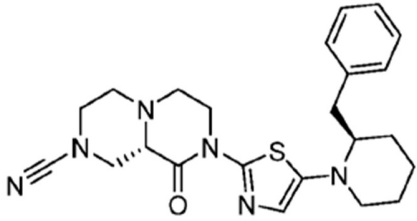
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	(R)-9-oxo-8-(3-propoxy-4-(1H-pyrazol-5-yl)phenyl)octahydro-2H-pyrazino[1,2-a]pyrazine-2-carbonitrile
	(R)-8-(6-(3-cyanophenyl)pyrimidin-4-yl)-9-oxooctahydro-2H-pyrazino[1,2-a]pyrazine-2-carbonitrile
	(R)-8-(6-(1H-pyrazol-4-yl)benzo[d]thiazol-2-yl)-9-oxooctahydro-2H-pyrazino[1,2-a]pyrazine-2-carbonitrile
	(R)-8-(2'-cyano-[4,4'-bipyridin]-2-yl)-9-oxooctahydro-2H-pyrazino[1,2-a]pyrazine-2-carbonitrile
	(R)-8-(6-(3-chlorophenyl)pyrimidin-4-yl)-9-oxooctahydro-2H-pyrazino[1,2-a]pyrazine-2-carbonitrile
	(R)-8-(6-(3-cyano-5-fluorophenyl)pyrimidin-4-yl)-9-oxooctahydro-2H-pyrazino[1,2-a]pyrazine-2-carbonitrile
	(R)-8-(6-(4-chlorophenyl)pyrimidin-4-yl)-9-oxooctahydro-2H-pyrazino[1,2-a]pyrazine-2-carbonitrile
	(R)-9-oxo-8-(1-phenyl-1H-imidazol-4-yl)octahydro-2H-pyrazino[1,2-a]pyrazine-2-carbonitrile
	(R)-8-(5-(1H-pyrazol-5-yl)pyridin-2-yl)-9-oxooctahydro-2H-pyrazino[1,2-a]pyrazine-2-carbonitrile

	(R)-8-(4-(3-cyanophenyl)pyridin-2-yl)-9-oxooctahydro-2H-pyrazino[1,2-a]pyrazine-2-carbonitrile
	(R)-8-(5-(3-chlorophenyl)pyridazin-3-yl)-9-oxooctahydro-2H-pyrazino[1,2-a]pyrazine-2-carbonitrile
	(R)-8-(5-(1H-pyrazol-1-yl)pyridin-2-yl)-9-oxooctahydro-2H-pyrazino[1,2-a]pyrazine-2-carbonitrile
	(R)-8-(1-(3-cyanophenyl)-1H-imidazol-4-yl)-9-oxooctahydro-2H-pyrazino[1,2-a]pyrazine-2-carbonitrile
	(R)-9-oxo-8-(1-(3-(trifluoromethyl)phenyl)-1H-imidazol-4-yl)octahydro-2H-pyrazino[1,2-a]pyrazine-2-carbonitrile
	(R)-9-oxo-8-(1-(3-(trifluoromethoxy)phenyl)-1H-imidazol-4-yl)octahydro-2H-pyrazino[1,2-a]pyrazine-2-carbonitrile
	(R)-8-(1-(3-cyanophenyl)-1H-1,2,3-triazol-4-yl)-9-oxooctahydro-2H-pyrazino[1,2-a]pyrazine-2-carbonitrile
	(R)-8-(1-(3-cyanophenyl)-1H-1,2,4-triazol-3-yl)-9-oxooctahydro-2H-pyrazino[1,2-a]pyrazine-2-carbonitrile
	(R)-8-(5-(1H-indazol-7-yl)pyridin-2-yl)-9-oxooctahydro-2H-pyrazino[1,2-a]pyrazine-2-carbonitrile

	(R)-8-(5-(1H-indazol-4-yl)pyridin-2-yl)-9-oxooctahydro-2H-pyrazino[1,2-a]pyrazine-2-carbonitrile
	(R)-8-(5-(1H-indazol-7-yl)pyrazin-2-yl)-9-oxooctahydro-2H-pyrazino[1,2-a]pyrazine-2-carbonitrile
	(R)-8-(5-(1H-indazol-4-yl)pyrazin-2-yl)-9-oxooctahydro-2H-pyrazino[1,2-a]pyrazine-2-carbonitrile
	(R)-8-(6-(1H-indazol-7-yl)pyridazin-3-yl)-9-oxooctahydro-2H-pyrazino[1,2-a]pyrazine-2-carbonitrile
	(R)-8-(5-(1H-pyrazolo[3,4-c]pyridin-7-yl)pyridin-2-yl)-9-oxooctahydro-2H-pyrazino[1,2-a]pyrazine-2-carbonitrile
	(R)-8-(5-(1H-pyrazolo[3,4-b]pyridin-4-yl)pyridin-2-yl)-9-oxooctahydro-2H-pyrazino[1,2-a]pyrazine-2-carbonitrile

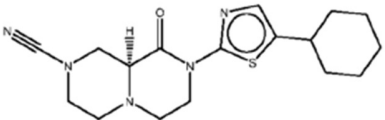
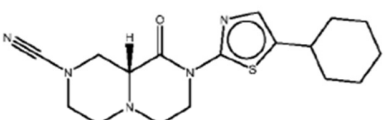
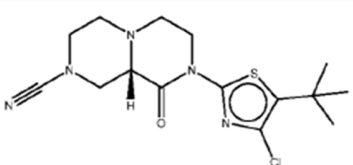
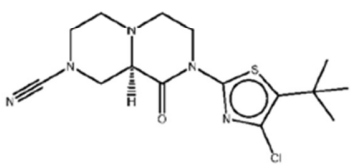
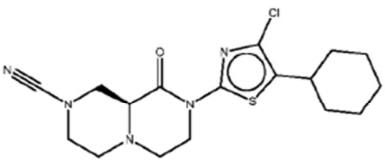
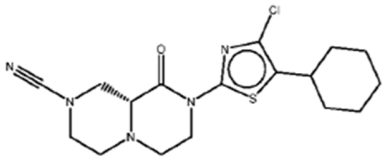
	(R)-8-(6-(1H-indazol-4-yl)pyridazin-3-yl)-9-oxooctahydro-2H-pyrazino[1,2-a]pyrazine-2-carbonitrile
	(R)-8-(5-(1H-indazol-7-yl)pyrimidin-2-yl)-9-oxooctahydro-2H-pyrazino[1,2-a]pyrazine-2-carbonitrile
	*(S)-9-oxo-8-(5-(2-phenoxyphenyl)thiazol-2-yl)octahydro-2H-pyrazino[1,2-a]pyrazine-2-carbonitrile
	*(R)-9-oxo-8-(5-(2-phenoxyphenyl)thiazol-2-yl)octahydro-2H-pyrazino[1,2-a]pyrazine-2-carbonitrile
	(R)-9-oxo-8-(5-(2-phenoxyphenyl)-1H-pyrazol-3-yl)octahydro-2H-pyrazino[1,2-a]pyrazine-2-carbonitrile
	(S)-9-oxo-8-(5-(2-phenoxyphenyl)-1H-pyrazol-3-yl)octahydro-2H-pyrazino[1,2-a]pyrazine-2-carbonitrile

	(R)-8-(5-(3-(azetidin-1-ylmethyl)phenyl)thiazol-2-yl)-9-oxooctahydro-2H-pyrazino[1,2-a]pyrazine-2-carbonitrile
	(S)-8-(5-(3-(azetidin-1-ylmethyl)phenyl)thiazol-2-yl)-9-oxooctahydro-2H-pyrazino[1,2-a]pyrazine-2-carbonitrile
	(R)-8-(5-(tert-butyl)-4-chlorothiazol-2-yl)-9a-fluoro-9-oxooctahydro-2H-pyrazino[1,2-a]pyrazine-2-carbonitrile
	(S)-8-(5-(tert-butyl)-4-chlorothiazol-2-yl)-9a-fluoro-9-oxooctahydro-2H-pyrazino[1,2-a]pyrazine-2-carbonitrile
	(R)-8-(5-cyclohexylthiazol-2-yl)-9a-methyl-9-oxooctahydro-2H-pyrazino[1,2-a]pyrazine-2-carbonitrile
	(S)-8-(5-cyclohexylthiazol-2-yl)-9a-methyl-9-oxooctahydro-2H-pyrazino[1,2-a]pyrazine-2-carbonitrile
	(R)-8-(5-((S)-2-benzylpiperidin-1-yl)thiazol-2-yl)-9-oxooctahydro-2H-pyrazino[1,2-a]pyrazine-2-carbonitrile
	(R)-8-(5-((R)-2-benzylpiperidin-1-yl)thiazol-2-yl)-9-oxooctahydro-2H-pyrazino[1,2-a]pyrazine-2-carbonitrile

	(S)-8-(5-((S)-2-benzylpiperidin-1-yl)thiazol-2-yl)-9-oxooctahydro-2H-pyrazino[1,2-a]pyrazine-2-carbonitrile
	(S)-8-(5-((R)-2-benzylpiperidin-1-yl)thiazol-2-yl)-9-oxooctahydro-2H-pyrazino[1,2-a]pyrazine-2-carbonitrile

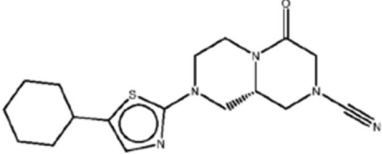
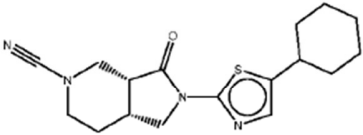
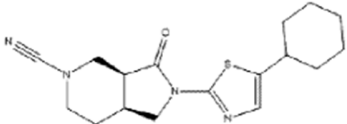
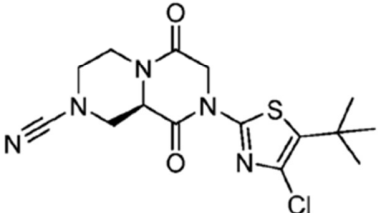
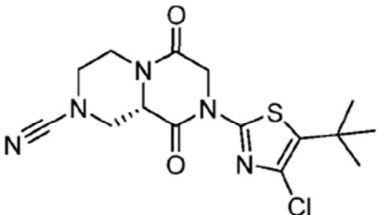
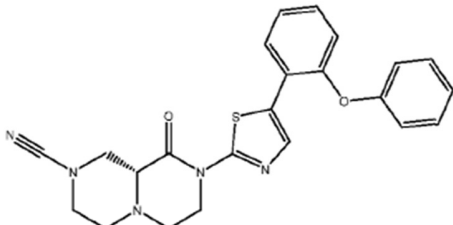
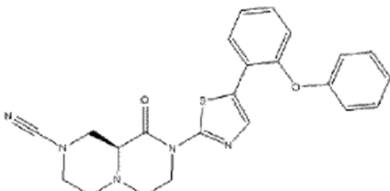
, or a pharmaceutically acceptable salt thereof; or

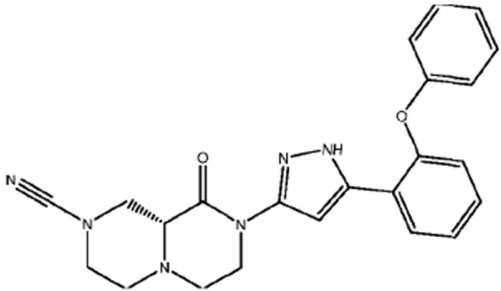
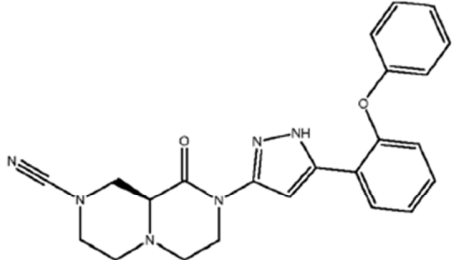
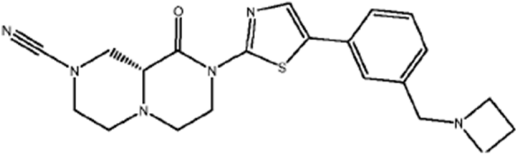
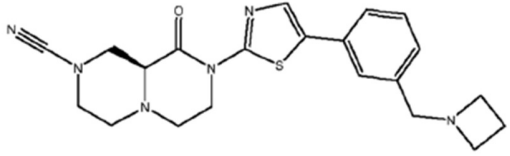
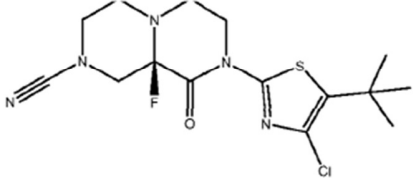
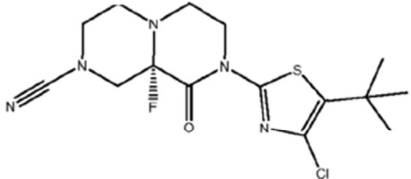
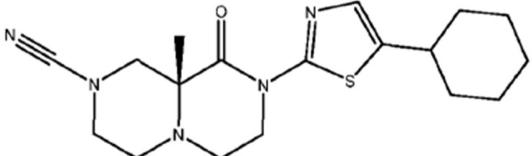
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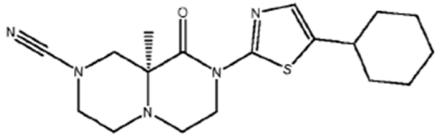
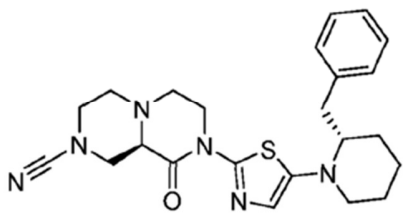
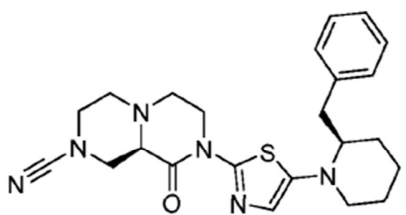
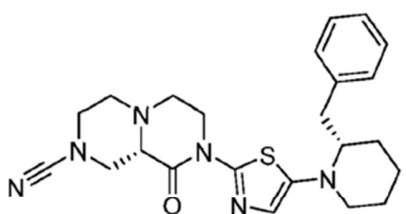
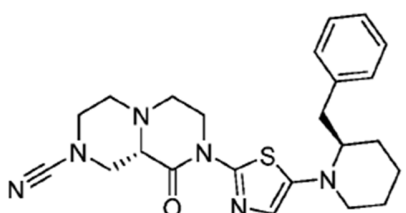
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	(R)-8-(5-cyclohexylthiazol-2-yl)-9-oxooctahydro-2H-pyrazino[1,2-a]pyrazine-2-carbonitrile
	* (S)-8-(5-(tert-butyl)-4-chlorothiazol-2-yl)-9-oxooctahydro-2H-pyrazino[1,2-a]pyrazine-2-carbonitrile
	* (R)-8-(5-(tert-butyl)-4-chlorothiazol-2-yl)-9-oxooctahydro-2H-pyrazino[1,2-a]pyrazine-2-carbonitrile
	(S)-8-(4-chloro-5-cyclohexylthiazol-2-yl)-9-oxooctahydro-2H-pyrazino[1,2-a]pyrazine-2-carbonitrile
	(R)-8-(4-chloro-5-cyclohexylthiazol-2-yl)-9-oxooctahydro-2H-pyrazino[1,2-a]pyrazine-2-carbonitrile

	(R)-8-(5-(3-cyanophenyl)pyrimidin-2-yl)-9-oxooctahydro-2H-pyrazino[1,2-a]pyrazine-2-carbonitrile
	(S)-8-(5-(3-cyanophenyl)pyrimidin-2-yl)-9-oxooctahydro-2H-pyrazino[1,2-a]pyrazine-2-carbonitrile
	(R)-8-(5-(3-chlorophenyl)pyrimidin-2-yl)-9-oxooctahydro-2H-pyrazino[1,2-a]pyrazine-2-carbonitrile
	(S)-8-(5-(3-chlorophenyl)pyrimidin-2-yl)-9-oxooctahydro-2H-pyrazino[1,2-a]pyrazine-2-carbonitrile
	(R)-8-(5-(3-cyanophenyl)thiazol-2-yl)-9-oxooctahydro-2H-pyrazino[1,2-a]pyrazine-2-carbonitrile
	(S)-8-(5-(3-cyanophenyl)thiazol-2-yl)-9-oxooctahydro-2H-pyrazino[1,2-a]pyrazine-2-carbonitrile
	(R)-8-(5-(3-chlorophenyl)thiazol-2-yl)-9-oxooctahydro-2H-pyrazino[1,2-a]pyrazine-2-carbonitrile
	(S)-8-(5-(3-chlorophenyl)thiazol-2-yl)-9-oxooctahydro-2H-pyrazino[1,2-a]pyrazine-2-carbonitrile

	(4aS,8aR)-7-(5-cyclohexylthiazol-2-yl)-8-oxooctahydro-2,7-naphthyridine-2(1H)-carbonitrile
	(4aR,8aS)-7-(5-cyclohexylthiazol-2-yl)-8-oxooctahydro-2,7-naphthyridine-2(1H)-carbonitrile
	(4aR, 8aR)-7-(5-cyclohexylthiazol-2-yl)-8-oxooctahydro-2,7-naphthyridine-2(1H)-carbonitrile
	(4aS, 8aS)-7-(5-cyclohexylthiazol-2-yl)-8-oxooctahydro-2,7-naphthyridine-2(1H)-carbonitrile
	*(S)-9-oxo-8-(5-phenylthiazol-2-yl)octahydro-2H-pyrazino[1,2-a]pyrazine-2-carbonitrile
	*(R)-9-oxo-8-(5-phenylthiazol-2-yl)octahydro-2H-pyrazino[1,2-a]pyrazine-2-carbonitrile
	(R)-8-(5-(tert-butyl)thiazol-2-yl)-9-oxooctahydro-2H-pyrazino[1,2-a]pyrazine-2-carbonitrile
	(S)-8-(5-(tert-butyl)thiazol-2-yl)-9a-methyl-9-oxooctahydro-2H-pyrazino[1,2-a]pyrazine-2-carbonitrile
	(R)-8-(5-cyclohexylthiazol-2-yl)-4,9-dioxooctahydro-2H-pyrazino[1,2-a]pyrazine-2-carbonitrile
	(S)-8-(5-cyclohexylthiazol-2-yl)-4-oxooctahydro-2H-pyrazino[1,2-a]pyrazine-2-carbonitrile

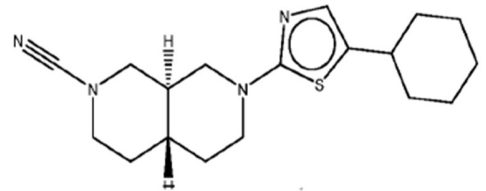
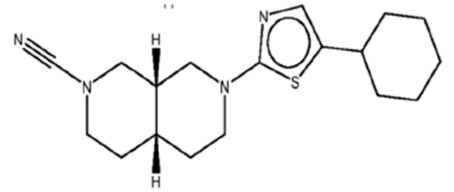
	(R)-8-(5-cyclohexylthiazol-2-yl)-4-oxooctahydro-2H-pyrazino[1,2-a]pyrazine-2-carbonitrile
	(3aR,7aR)-2-(5-cyclohexylthiazol-2-yl)-3-oxooctahydro-5H-pyrrolo[3,4-c]pyridine-5-carbonitrile
	(3aS,7aS)-2-(5-cyclohexylthiazol-2-yl)-3-oxooctahydro-5H-pyrrolo[3,4-c]pyridine-5-carbonitrile
	(R)-8-(5-(tert-butyl)-4-chlorothiazol-2-yl)-6,9-dioxooctahydro-2H-pyrazino[1,2-a]pyrazine-2-carbonitrile
	(S)-8-(5-(tert-butyl)-4-chlorothiazol-2-yl)-6,9-dioxooctahydro-2H-pyrazino[1,2-a]pyrazine-2-carbonitrile
	(S)-9-oxo-8-(5-(2-phenoxyphenyl)thiazol-2-yl)octahydro-2H-pyrazino[1,2-a]pyrazine-2-carbonitrile
	(R)-9-oxo-8-(5-(2-phenoxyphenyl)thiazol-2-yl)octahydro-2H-pyrazino[1,2-a]pyrazine-2-carbonitrile

	(R)-9-oxo-8-(5-(2-phenoxyphenyl)-1H-pyrazol-3-yl) octahydro-2H-pyrazino[1,2-a]pyrazine-2-carbonitrile
	(S)-9-oxo-8-(5-(2-phenoxyphenyl)-1H-pyrazol-3-yl) octahydro-2H-pyrazino[1,2-a]pyrazine-2-carbonitrile
	(R)-8-(5-(3-(azetidin-1-ylmethyl)phenyl)thiazol-2-yl)-9- oxooctahydro-2H-pyrazino[1,2-a]pyrazine-2-carbonitrile
	(S)-8-(5-(3-(azetidin-1-ylmethyl)phenyl)thiazol-2-yl)-9- oxooctahydro-2H-pyrazino[1,2-a]pyrazine-2-carbonitrile
	(R)-8-(5-(tert-butyl)-4-chlorothiazol-2-yl)-9a-fluoro-9- oxooctahydro-2H-pyrazino[1,2-a]pyrazine-2-carbonitrile
	(S)-8-(5-(tert-butyl)-4-chlorothiazol-2-yl)-9a-fluoro-9- oxooctahydro-2H-pyrazino[1,2-a]pyrazine-2-carbonitrile
	(R)-8-(5-cyclohexylthiazol-2-yl)-9a-methyl-9-oxooctahydro- 2H-pyrazino[1,2-a]pyrazine-2-carbonitrile

	(S)-8-(5-cyclohexylthiazol-2-yl)-9a-methyl-9-oxooctahydro-2H-pyrazino[1,2-a]pyrazine-2-carbonitrile
	(R)-8-(5-((S)-2-benzylpiperidin-1-yl)thiazol-2-yl)-9-oxooctahydro-2H-pyrazino[1,2-a]pyrazine-2-carbonitrile
	(R)-8-(5-((R)-2-benzylpiperidin-1-yl)thiazol-2-yl)-9-oxooctahydro-2H-pyrazino[1,2-a]pyrazine-2-carbonitrile
	(S)-8-(5-((S)-2-benzylpiperidin-1-yl)thiazol-2-yl)-9-oxooctahydro-2H-pyrazino[1,2-a]pyrazine-2-carbonitrile
	(S)-8-(5-((R)-2-benzylpiperidin-1-yl)thiazol-2-yl)-9-oxooctahydro-2H-pyrazino[1,2-a]pyrazine-2-carbonitrile

, or a pharmaceutically acceptable salt thereof.

12. The compound of claim 9, wherein the compound is selected from:

	(4aS,8aS)-7-(5-cyclohexylthiazol-2-yl)octahydro-2,7-naphthyridine-2(1H)-carbonitrile
	(4aS,8aR)-7-(5-cyclohexylthiazol-2-yl)octahydro-2,7-naphthyridine-2(1H)-carbonitrile

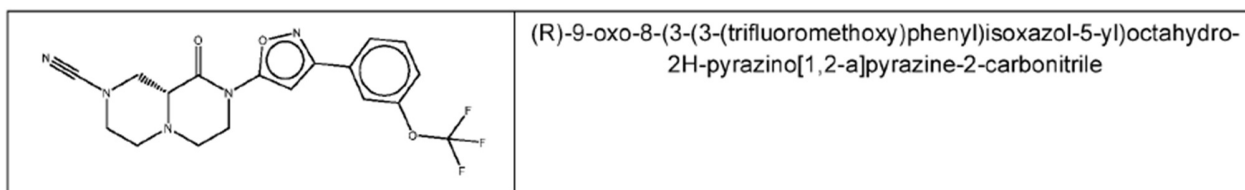
	(4aR,8aS)-7-(5-cyclohexylthiazol-2-yl)octahydro-2,7-naphthyridine-2(1H)-carbonitrile
	(R)-9-oxo-8-(3-phenylisoxazol-5-yl)octahydro-2H-pyrazino[1,2-a]pyrazine-2-carbonitrile
	(R)-9-oxo-8-(3-(3-(trifluoromethyl)phenyl)isoxazol-5-yl)octahydro-2H-pyrazino[1,2-a]pyrazine-2-carbonitrile
	(R)-9-oxo-8-(5-phenylisoxazol-3-yl)octahydro-2H-pyrazino[1,2-a]pyrazine-2-carbonitrile
	(R)-9-oxo-8-(5-(3-(trifluoromethyl)phenyl)isoxazol-3-yl)octahydro-2H-pyrazino[1,2-a]pyrazine-2-carbonitrile
	2-(5-cyclohexylthiazol-2-yl)octahydro-SH-pyrrolo[3,4-c]pyridine-5-carbonitrile

, or a pharmaceutically acceptable salt thereof.

13. A compound selected from:

	(R)-8-(3-(3-cyanophenyl)isoxazol-5-yl)-9-oxooctahydro-2H-pyrazino[1,2-a]pyrazine-2-carbonitrile
	(S)-8-(3-(3-cyanophenyl)isoxazol-5-yl)-9-oxooctahydro-2H-pyrazino[1,2-a]pyrazine-2-carbonitrile
	(R)-8-(3-(3-chlorophenyl)isoxazol-5-yl)-9-oxooctahydro-2H-pyrazino[1,2-a]pyrazine-2-carbonitrile

	(S)-8-(3-(3-chlorophenyl)isoxazol-5-yl)-9-oxooctahydro-2H-pyrazino[1,2-a]pyrazine-2-carbonitrile
	(R)-8-(5-(3-cyanophenyl)isoxazol-3-yl)-9-oxooctahydro-2H-pyrazino[1,2-a]pyrazine-2-carbonitrile
	(S)-8-(5-(3-cyanophenyl)isoxazol-3-yl)-9-oxooctahydro-2H-pyrazino[1,2-a]pyrazine-2-carbonitrile
	(3aS,7aS)-2-(5-(3-cyanophenyl)pyrimidin-2-yl)octahydro-5H-pyrrolo[3,4-c]pyridine-5-carbonitrile
	(R)-8-(3-(4-chlorophenyl)isoxazol-5-yl)-9-oxooctahydro-2H-pyrazino[1,2-a]pyrazine-2-carbonitrile
	(R)-8-(5-(3-chlorophenyl)-1,3,4-oxadiazol-2-yl)-9-oxooctahydro-2H-pyrazino[1,2-a]pyrazine-2-carbonitrile
	(R)-8-(5-(3-cyanophenyl)-1,3,4-oxadiazol-2-yl)-9-oxooctahydro-2H-pyrazino[1,2-a]pyrazine-2-carbonitrile
	(R)-8-(4-(3-cyanophenyl)oxazol-2-yl)-9-oxooctahydro-2H-pyrazino[1,2-a]pyrazine-2-carbonitrile
	(R)-8-(3-(3-methoxyphenyl)isoxazol-5-yl)-9-oxooctahydro-2H-pyrazino[1,2-a]pyrazine-2-carbonitrile



, or a pharmaceutically acceptable salt thereof.

14. A pharmaceutical composition comprising the compound of any one of claims 1-13, or a pharmaceutically acceptable salt thereof, and a pharmaceutically acceptable carrier.

15. The compound of any one of claims 1-13, or a pharmaceutically acceptable salt thereof, or the pharmaceutical composition of claim 14 for use in therapy.

16. Use of a compound of any one of claims 1-13, or a pharmaceutically acceptable salt thereof, or the pharmaceutical composition of claim 14, in the manufacture of a medicament for treating a disease or disorder, or condition associated with USP30, wherein the disease, disorder or condition is:

- (a) a neurodegenerative or neurologic disease, disorder, or condition; or
- (b) a disease, disorder, or condition associated with mitochondrial dysfunction, optionally wherein the disease, disorder, or condition is Parkinson's disease.