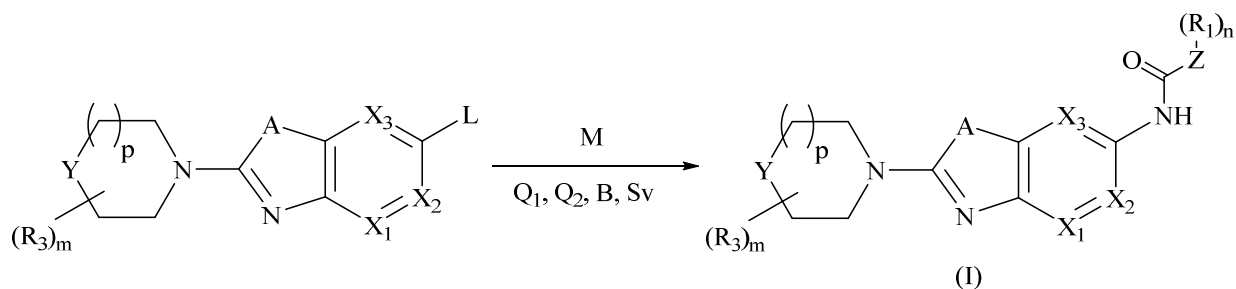


CLAIMS

1. A method of making a compound of formula (I) or a salt thereof, according to the following scheme:



wherein:

M is $\text{HO}-\text{C}(=\text{O})-\text{Z}-(\text{R}_1)_n$;

L is NH_2 ;

X_1 and X_3 independently are CH or N; X_2 is CR_2 or N; provided one and not more than one of X_1 , X_2 or X_3 is N;

A is O or S;

Y is $-\text{CH}_2-$ or O;

Z is $(\text{C}_6\text{-C}_{10})$ aryl or 5- to 10-membered heterocyclyl comprising 1 or 2 heteroatoms selected from N, S, and O;

R_1 , at each occurrence, is independently halo or optionally substituted 5- to 10-membered heterocyclyl comprising 1 or 2 N atoms; wherein each optional substituent is $(\text{C}_1\text{-C}_6)$ alkyl, $(\text{C}_1\text{-C}_6)$ alkoxy, amino $(\text{C}_1\text{-C}_6)$ alkyl, halo, hydroxyl, hydroxy $(\text{C}_1\text{-C}_6)$ alkyl or $-\text{NR}_a\text{R}_b$;

R_2 is hydrogen, optionally substituted $(\text{C}_3\text{-C}_{10})$ cycloalkyl, optionally substituted $(\text{C}_6\text{-C}_{10})$ aryl, optionally substituted 4- to 10-membered heterocyclyl comprising 1 or 2 heteroatoms selected from N and O, or $-\text{NR}_a\text{R}_b$; wherein each optional substituent is $(\text{C}_1\text{-C}_6)$ alkyl, amino, halo or hydroxyl;

R_3 , at each occurrence, is $(\text{C}_1\text{-C}_6)$ alkyl or hydroxyl;

R_{10} is alkyl;

R_a and R_b are independently hydrogen, C(=O)(C₁-C₄)alkyl, or 5- to 10-membered heterocyclyl comprising 1 N atom;

'm' and 'n' are independently 0, 1 or 2;

'p' is 0 or 1;

Q₁ is an amide coupling reagent;

Q₂ is an activating agent or is absent;

B is a base; and

Sv is a solvent.

2. The method of claim 1, wherein

A is O or S;

Y is -CH₂- or O;

Z is 5- to 10-membered heterocyclyl comprising 1 or 2 heteroatoms selected from N, S, and O;

R₁, at each occurrence, is independently halo or optionally substituted 5- to 10-membered heterocyclyl comprising 1 or 2 N atoms, wherein each optional substituent is (C₁-C₆)alkyl, amino(C₁-C₆)alkyl, halo, or NR_aR_b; where R_a and R_b are independently hydrogen, C(=O)(C₁-C₄)alkyl, or 5- to 10-membered heterocyclyl comprising 1 N atom;

R₂ is hydrogen, (C₃-C₁₀)cycloalkyl, 4- to 10-membered heterocyclyl comprising 1 or 2 heteroatoms selected from N and O, or NR_aR_b;

m is 0; and

n is 1.

3. The method of claim 1, wherein

A is O or S;

Y is -CH₂- or O;

Z is heterocyclyl comprising 1 or 2 heteroatoms selected from N, S, and O;

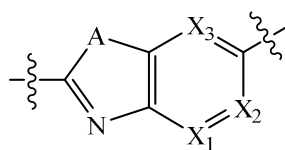
R₁, at each occurrence, is independently halo or optionally substituted 5- to 10-membered heterocyclyl comprising 1 or 2 N atoms; wherein each optional substituent is (C₁-C₆)alkyl, (C₁-C₆)alkoxy, amino(C₁-C₆)alkyl, halo, hydroxyl or NR_aR_b; where R_a and

R_b are independently hydrogen, C(=O)(C₁-C₄)alkyl, or 5- to 10-membered heterocyclyl comprising 1 N atom;

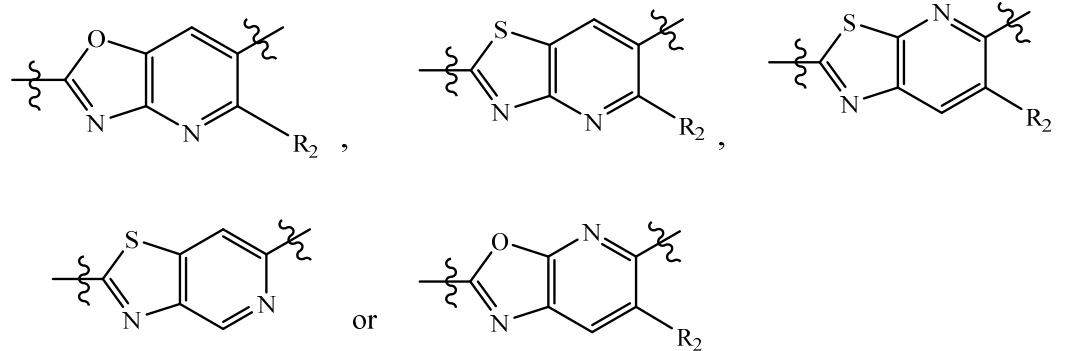
R₂ is hydrogen, (C₃-C₁₀)cycloalkyl, optionally substituted 4- to 10-membered heterocyclyl comprising 1 or 2 heteroatoms selected from N and O, or NR_aR_b, where each optional substituent is selected from amino, halo and hydroxyl;

‘m’ and ‘n’ are independently 0, 1 or 2; and

‘p’ is 0 or 1.



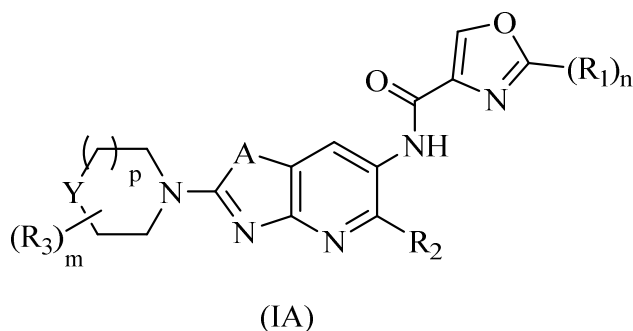
4. The method of claim 1, wherein the moiety



5. The method of claim 1, wherein Z is 5- or 6-membered heterocyclyl comprising 1 or 2 heteroatoms selected from N, S, and O.

6. The method of claim 1, wherein Z is an optionally substituted phenyl, or heterocyclyl selected from furanyl, thienyl, thiazolyl, pyridyl; each of which is optionally substituted with halo.

7. The method of claim 1, wherein the compound is represented by formula (IA):



or a salt thereof.

8. The method of claim 7, wherein

A is O or S;

Y is -CH₂- or O;

R₁, at each occurrence, is independently halo or optionally substituted 5- to 10-membered heterocyclyl comprising 1 or 2 N atoms, wherein each optional substituent is (C₁-C₆)alkyl, amino(C₁-C₆)alkyl, halo, or NR_aR_b; where R_a and R_b are independently hydrogen, C(=O)(C₁-C₄)alkyl, or 5- to 10-membered heterocyclyl comprising 1 N atom;

R₂ is hydrogen, (C₃-C₁₀)cycloalkyl, 4- to 10-membered heterocyclyl comprising 1 or 2 heteroatoms selected from N and O, or NR_aR_b;

m is 0; and

n is 1.

9. The method of claim 7, wherein

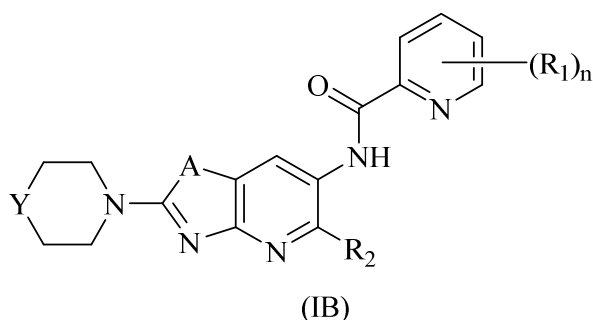
A is O or S;

Y is -CH₂- or O;

R₁, at each occurrence, is independently halo or optionally substituted 5- to 10-membered heterocyclyl comprising 1 or 2 N atoms; wherein each optional substituent is (C₁-C₆)alkyl, (C₁-C₆)alkoxy, amino(C₁-C₆)alkyl, halo, hydroxyl or NR_aR_b; where R_a and R_b are independently hydrogen, C(=O)(C₁-C₄)alkyl or heterocyclyl comprising 1 N atom;

R₂ is hydrogen, (C₃-C₁₀)cycloalkyl, optionally substituted 4- to 10-membered heterocyclyl comprising 1 or 2 heteroatoms selected from N and O, or NR_aR_b, where the substituent is selected from amino, halo or hydroxyl; and
'm' and 'n' are independently 0, 1 or 2.

10. The method of claim 1, wherein the compound is represented by (IB):



or a salt thereof.

11. The method of claim 10, wherein

A is O or S;

Y is -CH₂- or O;

R₁, at each occurrence, is independently halo or optionally substituted 5- to 10-membered heterocyclyl comprising 1 or 2 N atoms, wherein each optional substituent is (C₁-C₆)alkyl, amino(C₁-C₆)alkyl, halo, or NR_aR_b; where R_a and R_b are independently hydrogen, C(=O)(C₁-C₄)alkyl, or 5- to 10-membered heterocyclyl comprising 1 N atom;

R₂ is hydrogen, (C₃-C₁₀)cycloalkyl, 4- to 10-membered heterocyclyl comprising 1 or 2 heteroatoms selected from N and O, or NR_aR_b; and

n is 1.

12. The method of claim 10, wherein

A is O or S;

Y is -CH₂- or O;

R₁, at each occurrence, is independently halo or optionally substituted 5- to 10-membered heterocyclyl comprising 1 or 2 N atoms; wherein each optional substituent is (C₁-

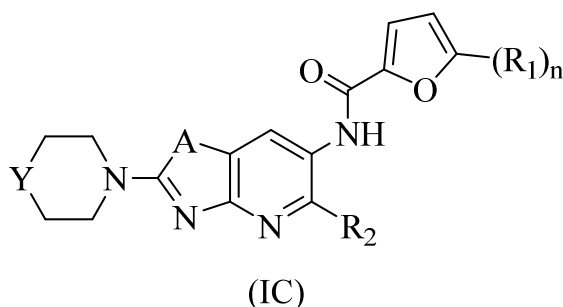
C₆)alkyl, (C₁-C₆)alkoxy, amino(C₁-C₆)alkyl, halo, hydroxyl or NR_aR_b; where R_a and R_b are independently hydrogen, C(=O)(C₁-C₄)alkyl, or 5- to 10-membered heterocyclyl comprising 1 N atom;

R₂ is hydrogen, (C₃-C₁₀)cycloalkyl, optionally substituted 4- to 10-membered heterocyclyl comprising 1 or 2 heteroatoms selected from N and O, or NR_aR_b, where each optional substituent is selected from amino, halo and hydroxyl;

'm' and 'n' are independently 0, 1 or 2; and

'p' is 0 or 1.

13. The method of claim 1, wherein the compound is represented by (IC):



or a salt thereof.

14. The method of any one of claims 1-3, 8, 9, and 11-12, wherein R₁ is optionally substituted 5- to 10-membered heterocyclyl comprising 1 or 2 N atoms; wherein each optional substituent is (C₁-C₆)alkyl, (C₁-C₆)alkoxy, amino(C₁-C₆)alkyl, halo, hydroxyl, hydroxy(C₁-C₆)alkyl or -NR_aR_b; R_a and R_b are independently hydrogen.

15. The method of any one of claims 1, 2, 8, and 11, wherein R₁ is optionally substituted 5- to 10-membered heterocyclyl comprising 1 or 2 N atoms; and each optional substituent is (C₁-C₆)alkyl, amino(C₁-C₆)alkyl, halo, or NR_aR_b; where R_a and R_b are independently hydrogen, C(=O)(C₁-C₄)alkyl, or 5- to 10-membered heterocyclyl comprising 1 N atom.

16. The method of any one of claims 1, 3, 9, and 12, wherein R₁ is optionally substituted 5- to 10-membered heterocyclyl comprising 1 or 2 N atoms; and each optional substituent is (C₁-C₆)alkyl, (C₁-C₆)alkoxy, amino(C₁-C₆)alkyl, halo, hydroxyl or NR_aR_b; where R_a and R_b

are independently hydrogen, C(=O)(C₁-C₄)alkyl, or 5- to 10-membered heterocyclyl comprising 1 N atom.

17. The method of claim 14, wherein R₁ is pyridyl, pyrazolyl, pyrrolidinyl or piperidinyl.

18. The method of claim 14, wherein R₁ is optionally substituted pyrazolyl, wherein each optional substituent is (C₁-C₆)alkyl, hydroxyl or -NR_aR_b.

19. The method of any one of claims 1-3, 8, 9, 11, and 12, wherein R₁ is halo.

20. The method of any one of claims 1, 2, 8, and 11, wherein R₂ is hydrogen, (C₃-C₁₀)cycloalkyl, 4- to 10-membered heterocyclyl comprising 1 or 2 heteroatoms selected from N and O, or NR_aR_b.

21. The method of any one of claims 1, 3, 9, and 12, wherein R₂ is hydrogen, (C₃-C₁₀)cycloalkyl, optionally substituted 4- to 10-membered heterocyclyl comprising 1 or 2 heteroatoms selected from N and O, or NR_aR_b, where each optional substituent is selected from amino, halo or hydroxyl.

22. The method of claim 1, wherein R₂ is optionally substituted 4- to 10-membered heterocyclyl selected from piperidinyl, pyrrolidinyl, morpholinyl, piperazinyl, azetidinyl, pyrazolyl, and furanyl; wherein each optional substituent is hydroxyl, halo, (C₁-C₆)alkyl or amino.

23. The method of claim 1 or 3, wherein R₂ is piperidinyl, pyrrolidinyl, morpholinyl, or piperazinyl.

24. The method of any one of claims 1-3, 20, and 21, wherein R₂ is hydrogen.

25. The method of any one of claims 1-3, 20, and 21, wherein R₂ is (C₃-C₁₀)cycloalkyl.

26. The method of claim 25, wherein R₂ is cyclopropyl.

27. The method of any one of claims 1, 3, 9, and 12, wherein R_3 is (C_1-C_6) alkyl.
28. The method of any one of claims 1, 2, 8, and 11, wherein m is 0 and p is 1.
29. The method of any one of claims 1, 3, 9, and 12, wherein m is 0 or 2, and p is 0 or 1.
30. The method of any one of claims 1-29, wherein B is a nitrogenous base.
31. The method of any one of claims 1-30, wherein S_v is an aprotic solvent.
32. The method of any one of claims 1-31, wherein
 Q_1 is N -(3-dimethylaminopropyl)- N' -ethylcarbodiimide (EDCI) or a salt thereof, or 1-[bis(dimethylamino)methylene]-1H-1,2,3-triazolo[4,5-b]pyridinium 3-oxide hexafluorophosphate (HATU);
 Q_2 is hydroxybenzotriazole (HOBT) or is absent;
 B is diisopropylethylamine (DIPEA) or trimethylamine (TEA); and
 S_v is dimethyl formamide (DMF).
33. The method of claim 32, wherein
 Q_1 is EDCI or a salt thereof; and
 Q_2 is HOBT.
34. The method of claim 32, wherein
 Q_1 is HATU; and
 Q_2 is absent.
35. The method of any one of claims 1-34, wherein the method further comprises a purification step.
36. The method of claim 35, wherein the purification step comprises column chromatography, preparative thin layer chromatography, or high performance liquid chromatography.

37. The method of any one of claims 1-36, wherein the method further comprises a deprotection step comprising contacting the reaction mixture with a deprotection agent, and the deprotection agent is an acid or a source of fluoride.

38. The method of claim 37, wherein the deprotection agent is methanolic hydrochloric acid or tetrabutylammonium fluoride (TBAF).

39. The method of any one of claims 1-38, wherein the compound of formula (I) is selected from:

Example No	IUPAC name
1.	6'-amino-N-(2-morpholinooxazolo[4,5-b]pyridin-6-yl)-[2,3'-bipyridine]-6-carboxamide;
2.	6'-amino-N-(5-cyclopropyl-2-morpholinooxazolo[4,5-b]pyridin-6-yl)-[2,3'-bipyridine]-6-carboxamide hydrochloride;
3.	N-(5-cyclopropyl-2-morpholinooxazolo[4,5-b]pyridin-6-yl)-2-(2-methylpyridin-4-yl)oxazole-4-carboxamide hydrochloride;
4.	N-(2,5-di(piperidin-1-yl)oxazolo[4,5-b]pyridin-6-yl)-6-(1H-pyrazol-4-yl)picolinamide hydrochloride;
5.	N-(2,5-di(piperidin-1-yl)oxazolo[4,5-b]pyridin-6-yl)-2-(2-methylpyridin-4-yl)oxazole-4-carboxamide;
6.	N-(2-morpholino-5-(piperidin-1-yl)oxazolo[4,5-b]pyridin-6-yl)-6-(1H-pyrazol-4-yl)picolinamide;
7.	2-(2-methylpyridin-4-yl)-N-(2-morpholino-5-(piperidin-1-yl)oxazolo[4,5-b]pyridin-6-yl)oxazole-4-carboxamide;
8.	6-chloro-N-(2-morpholino-5-(piperidin-1-yl)oxazolo[4,5-b]pyridin-6-yl)picolinamide;
9.	N-(2,5-di(piperidin-1-yl)oxazolo[4,5-b]pyridin-6-yl)-6-(1-methyl-1H-pyrazol-4-yl)picolinamide;

10.	2-(2-chloropyridin-4-yl)-N-(2,5-di(piperidin-1-yl)oxazolo[4,5-b]pyridin-6-yl)oxazole-4-carboxamide;
11.	(S)-2-(2-methylpyridin-4-yl)-N-(2-morpholino-5-(pyrrolidin-3-ylamino)oxazolo[4,5-b]pyridin-6-yl)oxazole-4-carboxamide;
12.	6'-amino-N-(2-morpholinooxazolo[5,4-b]pyridin-5-yl)-[2,3'-bipyridine]-6-carboxamide;
13.	6'-amino-N-(2-morpholinothiazolo[4,5-c]pyridin-6-yl)-[2,3'-bipyridine]-6-carboxamide;
14.	6'-amino-N-(2-morpholinothiazolo[5,4-b]pyridin-5-yl)-[2,3'-bipyridine]-6-carboxamide;
15.	2-(2-methylpyridin-4-yl)-N-(2-morpholinothiazolo[4,5-b]pyridin-6-yl)oxazole-4-carboxamide;
16.	6'-amino-N-(2-morpholinothiazolo[4,5-b]pyridin-6-yl)-[2,3'-bipyridine]-6-carboxamide;
17.	N-(2-morpholinothiazolo[4,5-b]pyridin-6-yl)-6-(1H-pyrazol-4-yl)picolinamide;
18.	3-(4-(aminomethyl)piperidin-1-yl)-5-fluoro-N-(2-morpholinothiazolo[4,5-b]pyridin-6-yl)benzamide;
19.	2-(4-(aminomethyl)piperidin-1-yl)-5-fluoro-N-(2-morpholinothiazolo[4,5-b]pyridin-6-yl)benzamide;
20.	2-(2-methylpyridin-4-yl)-N-(2-morpholino-5-(piperidin-1-yl)thiazolo[4,5-b]pyridin-6-yl)oxazole-4-carboxamide;
21.	N-(2-morpholino-5-(piperidin-1-yl)thiazolo[4,5-b]pyridin-6-yl)-6-(1H-pyrazol-4-yl)picolinamide;
22.	N-(2,5-di(piperidin-1-yl)thiazolo[4,5-b]pyridin-6-yl)-6-(1H-pyrazol-4-yl)picolinamide;

23.	N-(2,5-di(piperidin-1-yl)thiazolo[4,5-b]pyridin-6-yl)-2-(2-methylpyridin-4-yl)oxazole-4-carboxamide;
24.	N-(2,5-dimorpholinooxazolo[4,5-b]pyridin-6-yl)-2-(2-methylpyridin-4-yl)oxazole-4-carboxamide;
25.	N-(5-(4-methylpiperazin-1-yl)-2-morpholinooxazolo[4,5-b]pyridin-6-yl)-2-(2-methylpyridin-4-yl)oxazole-4-carboxamide;
26.	N-(2,5-di(piperidin-1-yl)oxazolo[4,5-b]pyridin-6-yl)-2-(6-methoxypyridin-3-yl)oxazole-4-carboxamide;
27.	N-(2,5-di(piperidin-1-yl)oxazolo[4,5-b]pyridin-6-yl)-2-(2-methylpyridin-3-yl)oxazole-4-carboxamide;
28.	N-(2,5-di(piperidin-1-yl)oxazolo[4,5-b]pyridin-6-yl)-2-(2-hydroxypyridin-3-yl)oxazole-4-carboxamide;
29.	2-(2-hydroxypyridin-3-yl)-N-(2-morpholino-5-(piperidin-1-yl)oxazolo[4,5-b]pyridin-6-yl)oxazole-4-carboxamide;
30.	N-(2,5-di(piperidin-1-yl)oxazolo[4,5-b]pyridin-6-yl)-2-(6-hydroxypyridin-3-yl)oxazole-4-carboxamide;
31.	2-(2-methoxypyridin-4-yl)-N-(2-morpholino-5-(piperidin-1-yl)oxazolo[4,5-b]pyridin-6-yl)oxazole-4-carboxamide;
32.	2-(2-methylpyridin-3-yl)-N-(2-morpholino-5-(piperidin-1-yl)oxazolo[4,5-b]pyridin-6-yl)oxazole-4-carboxamide;
33.	2-(3-methylpyridin-4-yl)-N-(2-morpholino-5-(piperidin-1-yl)oxazolo[4,5-b]pyridin-6-yl)oxazole-4-carboxamide;
34.	N-(2,5-di(piperidin-1-yl)oxazolo[4,5-b]pyridin-6-yl)-2-(3-methylpyridin-4-yl)oxazole-4-carboxamide;
35.	2-(6-methylpyridin-3-yl)-N-(2-morpholino-5-(piperidin-1-yl)oxazolo[4,5-b]pyridin-6-yl)oxazole-4-carboxamide;

36.	6-(1-methyl-1H-pyrazol-4-yl)-N-(2-morpholino-5-(piperidin-1-yl)oxazolo[4,5-b]pyridin-6-yl)picolinamide;
37.	N-(2,5-di(piperidin-1-yl)oxazolo[4,5-b]pyridin-6-yl)-2-(6-methylpyridin-3-yl)oxazole-4-carboxamide;
38.	(S)-N-(5-(3-aminopyrrolidin-1-yl)-2-morpholinooxazolo[4,5-b]pyridin-6-yl)-2-(2-methylpyridin-4-yl)oxazole-4-carboxamide;
39.	(S)-N-(5-(3-hydroxypyrrolidin-1-yl)-2-morpholinooxazolo[4,5-b]pyridin-6-yl)-2-(2-methylpyridin-4-yl)oxazole-4-carboxamide;
40.	(R)-N-(5-(3-aminopyrrolidin-1-yl)-2-morpholinooxazolo[4,5-b]pyridin-6-yl)-2-(2-methylpyridin-4-yl)oxazole-4-carboxamide;
41.	(R)-N-(5-(3-hydroxypyrrolidin-1-yl)-2-morpholinooxazolo[4,5-b]pyridin-6-yl)-2-(2-methylpyridin-4-yl)oxazole-4-carboxamide;
42.	(S)-2-(3-aminopyrrolidin-1-yl)-N-(2-morpholino-5-(piperidin-1-yl)oxazolo[4,5-b]pyridin-6-yl)oxazole-4-carboxamide;
43.	(S)-6-(3-hydroxypyrrolidin-1-yl)-N-(2-morpholino-5-(piperidin-1-yl)oxazolo[4,5-b]pyridin-6-yl)picolinamide;
44.	(S)-6-(3-aminopyrrolidin-1-yl)-N-(2-morpholino-5-(piperidin-1-yl)oxazolo[4,5-b]pyridin-6-yl)picolinamide;
45.	(S)-2-(3-hydroxypyrrolidin-1-yl)-N-(2-morpholino-5-(piperidin-1-yl)oxazolo[4,5-b]pyridin-6-yl)oxazole-4-carboxamide;
46.	(S)-N-(5-cyclopropyl-2-morpholinooxazolo[4,5-b]pyridin-6-yl)-2-(3-hydroxypyrrolidin-1-yl)oxazole-4-carboxamide;
47.	(S)-2-(3-aminopyrrolidin-1-yl)-N-(5-cyclopropyl-2-morpholinooxazolo[4,5-b]pyridin-6-yl)oxazole-4-carboxamide;
48.	2-(2-methylpyridin-4-yl)-N-(5-(piperidin-1-yl)-2-(pyrrolidin-1-yl)oxazolo[4,5-b]pyridin-6-yl)oxazole-4-carboxamide hydrochloride;

49.	N-(2-(2,6-dimethylmorpholino)-5-(piperidin-1-yl)oxazolo[4,5-b]pyridin-6-yl)-2-(2-methylpyridin-4-yl)oxazole-4-carboxamide hydrochloride;
50.	N-(2,5-di(piperidin-1-yl)thiazolo[4,5-b]pyridin-6-yl)-6-(1-methyl-1H-pyrazol-4-yl)picolinamide hydrochloride;
51.	6-(1-methyl-1H-pyrazol-4-yl)-N-(2-morpholino-5-(piperidin-1-yl)thiazolo[4,5-b]pyridin-6-yl)picolinamide;
52.	N-(2,5-di(piperidin-1-yl)thiazolo[4,5-b]pyridin-6-yl)-2-(2-methylpyridin-3-yl)oxazole-4-carboxamide hydrochloride;
53.	N-(2-((2S,6R)-2,6-dimethylmorpholino)-5-(piperidin-1-yl)thiazolo[4,5-b]pyridin-6-yl)-2-(2-methylpyridin-4-yl)oxazole-4-carboxamide;
54.	2-(2-methylpyridin-3-yl)-N-(2-morpholino-5-(piperidin-1-yl)thiazolo[4,5-b]pyridin-6-yl)oxazole-4-carboxamide;
55.	2-(2-hydroxypyridin-3-yl)-N-(2-morpholino-5-(piperidin-1-yl)thiazolo[4,5-b]pyridin-6-yl)oxazole-4-carboxamide;
56.	N-(2,5-di(piperidin-1-yl)thiazolo[4,5-b]pyridin-6-yl)-2-(2-methoxypyridin-4-yl)oxazole-4-carboxamide;
57.	2-(6-methoxypyridin-3-yl)-N-(2-morpholino-5-(piperidin-1-yl)thiazolo[4,5-b]pyridin-6-yl)oxazole-4-carboxamide;
58.	2-(2-methoxypyridin-4-yl)-N-(2-morpholino-5-(piperidin-1-yl)thiazolo[4,5-b]pyridin-6-yl)oxazole-4-carboxamide;
59.	(S)-N-(5-(3-fluoropiperidin-1-yl)-2-morpholinethiazolo[4,5-b]pyridin-6-yl)-2-(2-methylpyridin-4-yl)oxazole-4-carboxamide;
60.	2-(6-methylpyridin-3-yl)-N-(2-morpholino-5-(piperidin-1-yl)thiazolo[4,5-b]pyridin-6-yl)oxazole-4-carboxamide;
61.	2-(3-methylpyridin-4-yl)-N-(2-morpholino-5-(piperidin-1-yl)thiazolo[4,5-b]pyridin-6-yl)oxazole-4-carboxamide;

62.	(S)-6-(3-aminopyrrolidin-1-yl)-N-(2-morpholino-5-(piperidin-1-yl)thiazolo[4,5-b]pyridin-6-yl)picolinamide;
63.	(S)-6-(3-hydroxypyrrolidin-1-yl)-N-(2-morpholino-5-(piperidin-1-yl)thiazolo[4,5-b]pyridin-6-yl)picolinamide;
64.	(S)-6-(3-aminopyrrolidin-1-yl)-N-(2,5-di(piperidin-1-yl)thiazolo[4,5-b]pyridin-6-yl)picolinamide;
65.	(S)-N-(2,5-di(piperidin-1-yl)thiazolo[4,5-b]pyridin-6-yl)-6-(3-hydroxypyrrolidin-1-yl)picolinamide;
66.	(S)-2-(3-aminopyrrolidin-1-yl)-N-(2-morpholino-5-(piperidin-1-yl)thiazolo[4,5-b]pyridin-6-yl)oxazole-4-carboxamide;
67.	(S)-N-(5-(3-aminopyrrolidin-1-yl)-2-morpholinothiazolo[4,5-b]pyridin-6-yl)-2-(2-methylpyridin-4-yl)oxazole-4-carboxamide;
68.	(S)-2-(3-aminopyrrolidin-1-yl)-N-(5-cyclopropyl-2-morpholinothiazolo[4,5-b]pyridin-6-yl)oxazole-4-carboxamide;
69.	N-(5-cyclopropyl-2-morpholinothiazolo[4,5-b]pyridin-6-yl)-2-(2-methylpyridin-4-yl)oxazole-4-carboxamide;
70.	(S)-2-(3-hydroxypyrrolidin-1-yl)-N-(2-morpholino-5-(piperidin-1-yl)thiazolo[4,5-b]pyridin-6-yl)oxazole-4-carboxamide;
71.	(S)-N-(5-(3-hydroxypyrrolidin-1-yl)-2-morpholinothiazolo[4,5-b]pyridin-6-yl)-2-(2-methylpyridin-4-yl)oxazole-4-carboxamide;
72.	(S)-N-(5-cyclopropyl-2-morpholinothiazolo[4,5-b]pyridin-6-yl)-6-(3-hydroxypyrrolidin-1-yl)picolinamide;
73.	(S)-N-(5-cyclopropyl-2-morpholinothiazolo[4,5-b]pyridin-6-yl)-2-(3-hydroxypyrrolidin-1-yl)oxazole-4-carboxamide;
74.	(S)-N-(5-cyclopropyl-2-morpholinothiazolo[4,5-b]pyridin-6-yl)-6-(1-(2-hydroxypropyl)-1H-pyrazol-4-yl)picolinamide;

75.	(S)-N-(5-cyclopropyl-2-morpholinothiazolo[4,5-b]pyridin-6-yl)-2-(1-(2-hydroxypropyl)-1H-pyrazol-4-yl)oxazole-4-carboxamide;
76.	N-(5-(3-hydroxypyrrolidin-1-yl)-2-morpholinothiazolo[4,5-b]pyridin-6-yl)-2-(6-methoxypyridin-3-yl)oxazole-4-carboxamide;
77.	(S)-N-(5-(3-hydroxypyrrolidin-1-yl)-2-morpholinothiazolo[4,5-b]pyridin-6-yl)-2-(6-methoxypyridin-3-yl)oxazole-4-carboxamide;
78.	(R)-N-(5-(3-hydroxypyrrolidin-1-yl)-2-morpholinothiazolo[4,5-b]pyridin-6-yl)-2-(6-methoxypyridin-3-yl)oxazole-4-carboxamide;
79.	(S)-N-(5-(azetidin-1-yl)-2-morpholinothiazolo[4,5-b]pyridin-6-yl)-6-(3-hydroxypyrrolidin-1-yl)picolinamide;
80.	N-(5-(3-hydroxyazetidin-1-yl)-2-morpholinothiazolo[4,5-b]pyridin-6-yl)-2-(2-methylpyridin-4-yl)oxazole-4-carboxamide;
81.	(S)-N-(5-(3-hydroxypyrrolidin-1-yl)-2-morpholinothiazolo[4,5-b]pyridin-6-yl)-5-(2-methylpyridin-4-yl)thiophene-2-carboxamide;
82.	(S)-N-(5-(3-hydroxypyrrolidin-1-yl)-2-morpholinothiazolo[4,5-b]pyridin-6-yl)-5-(2-methylpyridin-4-yl)furan-2-carboxamide;
83.	(S)-N-(5-(3-hydroxypiperidin-1-yl)-2-morpholinothiazolo[4,5-b]pyridin-6-yl)-2-(2-methylpyridin-4-yl)oxazole-4-carboxamide;
84.	N-(5-(4-hydroxypiperidin-1-yl)-2-morpholinothiazolo[4,5-b]pyridin-6-yl)-2-(2-methylpyridin-4-yl)oxazole-4-carboxamide
85.	(R)-N-(5-(3-hydroxypyrrolidin-1-yl)-2-morpholinothiazolo[4,5-b]pyridin-6-yl)-2-(2-methylpyridin-4-yl)oxazole-4-carboxamide;
86.	N-(5-(4-hydroxypiperidin-1-yl)-2-morpholinothiazolo[4,5-b]pyridin-6-yl)-5-(2-methylpyridin-4-yl)furan-2-carboxamide;
87.	N-(5-(azetidin-1-yl)-2-(piperidin-1-yl)thiazolo[4,5-b]pyridin-6-yl)-2-(2-methylpyridin-4-yl)oxazole-4-carboxamide;
88.	2-(2-methylpyridin-4-yl)-N-(2-(piperidin-1-yl)-5-(pyrrolidin-1-yl)thiazolo[4,5-b]pyridin-6-yl)oxazole-4-carboxamide;
89.	2-(2-methylpyridin-4-yl)-N-(2-morpholino-5-(pyrrolidin-1-yl)thiazolo[4,5-b]pyridin-6-yl)oxazole-4-carboxamide;

90.	5-(2-methylpyridin-4-yl)-N-(2-morpholino-5-(piperidin-1-yl)thiazolo[4,5-b]pyridin-6-yl)furan-2-carboxamide;
91.	N-(5-(azepan-1-yl)-2-morpholinothiazolo[4,5-b]pyridin-6-yl)-2-(2-methylpyridin-4-yl)oxazole-4-carboxamide;
92.	2-(2-aminopyridin-4-yl)-N-(2-morpholino-5-(piperidin-1-yl)thiazolo[4,5-b]pyridin-6-yl)oxazole-4-carboxamide hydrochloride;
93.	N-(5-(azetidin-1-yl)-2-morpholinothiazolo[4,5-b]pyridin-6-yl)-2-(2-methylpyridin-4-yl)oxazole-4-carboxamide;
94.	(R)-N-(5-(3-hydroxypiperidin-1-yl)-2-morpholinothiazolo[4,5-b]pyridin-6-yl)-2-(2-methylpyridin-4-yl)oxazole-4-carboxamide;
95.	(R)-N-(5-(3-hydroxypiperidin-1-yl)-2-morpholinothiazolo[4,5-b]pyridin-6-yl)-5-(2-methylpyridin-4-yl)furan-2-carboxamide;
96.	(S)-6-(1-(2-hydroxypropyl)-1H-pyrazol-4-yl)-N-(2-morpholino-5-(piperidin-1-yl)thiazolo[4,5-b]pyridin-6-yl)picolinamide
97.	N-(5-(4-fluoropiperidin-1-yl)-2-morpholinothiazolo[4,5-b]pyridin-6-yl)-5-(2-methylpyridin-4-yl)furan-2-carboxamide
98.	N-(5-(4-fluoropiperidin-1-yl)-2-morpholinothiazolo[4,5-b]pyridin-6-yl)-2-(2-methylpyridin-4-yl)oxazole-4-carboxamide hydrochloride
99.	N-(5-(1-methyl-1H-pyrazol-4-yl)-2-morpholinothiazolo[4,5-b]pyridin-6-yl)-2-(2-methylpyridin-4-yl)oxazole-4-carboxamide;
100.	N-(5-(3-fluorophenyl)-2-morpholinothiazolo[4,5-b]pyridin-6-yl)-2-(2-methylpyridin-4-yl)oxazole-4-carboxamide;
101.	N-(5-(4-hydroxypiperidin-1-yl)-2-morpholinothiazolo[4,5-b]pyridin-6-yl)-5-(2-methylpyridin-4-yl)furan-2-carboxamide;
102.	N-(5-(3-fluoropiperidin-1-yl)-2-morpholinothiazolo[4,5-b]pyridin-6-yl)-5-(2-methylpyridin-4-yl)furan-2-carboxamide;
103.	(S)-N-(5-(3-hydroxypyrrolidin-1-yl)-2-morpholinooxazolo[4,5-b]pyridin-6-yl)-2-(6-methoxypyridin-3-yl)oxazole-4-carboxamide;
104.	N-(5-(3-hydroxypyrrolidin-1-yl)-2-morpholinooxazolo[4,5-b]pyridin-6-yl)-2-(2-methylpyridin-4-yl)oxazole-4-carboxamide;

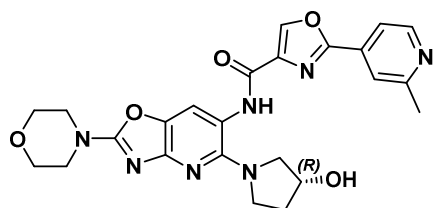
105.	(R)-N-(5-(3-hydroxypyrrolidin-1-yl)-2-morpholinooxazolo[4,5-b]pyridin-6-yl)-2-(6-methoxypyridin-3-yl)oxazole-4-carboxamide;
106.	N-(5-(3-hydroxypyrrolidin-1-yl)-2-morpholinooxazolo[4,5-b]pyridin-6-yl)-2-(6-methoxypyridin-3-yl)oxazole-4-carboxamide;
107.	(S)-N-(5-(3-hydroxypyrrolidin-1-yl)-2-morpholinooxazolo[4,5-b]pyridin-6-yl)-5-(2-methylpyridin-4-yl)furan-2-carboxamide;
108.	(S)-N-(5-(3-hydroxypyrrolidin-1-yl)-2-morpholinooxazolo[4,5-b]pyridin-6-yl)-5-(2-methylpyridin-4-yl)thiophene-2-carboxamide;
109.	N-(5-(azetidin-1-yl)-2-(piperidin-1-yl)oxazolo[4,5-b]pyridin-6-yl)-2-(2-methylpyridin-4-yl)oxazole-4-carboxamide;
110.	2-(2-methylpyridin-4-yl)-N-(2-(piperidin-1-yl)-5-(pyrrolidin-1-yl)oxazolo[4,5-b]pyridin-6-yl)oxazole-4-carboxamide;
111.	5-(2-methylpyridin-4-yl)-N-(2-morpholino-5-(piperidin-1-yl)oxazolo[4,5-b]pyridin-6-yl)furan-2-carboxamide;
112.	N-(5-(azetidin-1-yl)-2-morpholinooxazolo[4,5-b]pyridin-6-yl)-2-(2-methylpyridin-4-yl)oxazole-4-carboxamide;
113.	2-(2-methylpyridin-4-yl)-N-(2-morpholino-5-(pyrrolidin-1-yl)oxazolo[4,5-b]pyridin-6-yl)oxazole-4-carboxamide;
114.	N-(5-(4-hydroxypiperidin-1-yl)-2-morpholinooxazolo[4,5-b]pyridin-6-yl)-5-(2-methylpyridin-4-yl)furan-2-carboxamide;
115.	(R)-N-(5-(3-hydroxypiperidin-1-yl)-2-morpholinooxazolo[4,5-b]pyridin-6-yl)-5-(2-methylpyridin-4-yl)furan-2-carboxamide;
116.	N-(5-(furan-3-yl)-2-morpholinooxazolo[4,5-b]pyridin-6-yl)-2-(2-methylpyridin-4-yl)oxazole-4-carboxamide;
117.	N-(5-(3-fluoropiperidin-1-yl)-2-morpholinooxazolo[4,5-b]pyridin-6-yl)-2-(2-methylpyridin-4-yl)oxazole-4-carboxamide;
118.	N-(5-(4-hydroxypiperidin-1-yl)-2-morpholinooxazolo[4,5-b]pyridin-6-yl)-2-(2-methylpyridin-4-yl)oxazole-4-carboxamide;
119.	N-(5-(4-fluoropiperidin-1-yl)-2-morpholinooxazolo[4,5-b]pyridin-6-yl)-2-(2-methylpyridin-4-yl)oxazole-4-carboxamide;

120.	(S)-N-(5-(3-aminopiperidin-1-yl)-2-morpholinothiazolo[4,5-b]pyridin-6-yl)-2-(2-methylpyridin-4-yl)oxazole-4-carboxamide;
121.	2-(2-methylpyridin-4-yl)-N-(2-morpholino-5-(1H-pyrazol-4-yl)thiazolo[4,5-b]pyridin-6-yl)oxazole-4-carboxamide;
122.	N-(5-(6-fluoropyridin-3-yl)-2-morpholinothiazolo[4,5-b]pyridin-6-yl)-2-(2-methylpyridin-4-yl)oxazole-4-carboxamide;
123.	N-(5-(3-hydroxy-8-azabicyclo[3.2.1]octan-8-yl)-2-morpholinothiazolo[4,5-b]pyridin-6-yl)-2-(2-methylpyridin-4-yl)oxazole-4-carboxamide;
124.	N-(2-(3-hydroxypiperidin-1-yl)-5-(piperidin-1-yl)thiazolo[4,5-b]pyridin-6-yl)-2-(2-methylpyridin-4-yl)oxazole-4-carboxamide;
125.	2-(2-acetamidopyridin-4-yl)-N-(5-(4-hydroxypiperidin-1-yl)-2-morpholinothiazolo[4,5-b]pyridin-6-yl)oxazole-4-carboxamide;
126.	N-(2-(3-hydroxypiperidin-1-yl)-5-(4-hydroxypiperidin-1-yl)thiazolo[4,5-b]pyridin-6-yl)-2-(2-methylpyridin-4-yl)oxazole-4-carboxamide;
127.	2-(2-acetamidopyridin-4-yl)-N-(5-(3-hydroxypiperidin-1-yl)-2-morpholinothiazolo[4,5-b]pyridin-6-yl)oxazole-4-carboxamide;
128.	2-(2-aminopyridin-4-yl)-N-(5-(3-hydroxypiperidin-1-yl)-2-morpholinothiazolo[4,5-b]pyridin-6-yl)oxazole-4-carboxamide hydrochloride;
129.	5-(2-aminopyridin-4-yl)-N-(5-(4-hydroxypiperidin-1-yl)-2-morpholinothiazolo[4,5-b]pyridin-6-yl)furan-3-carboxamide hydrochloride;
130.	2-(2-aminopyridin-4-yl)-N-(5-(4-hydroxypiperidin-1-yl)-2-morpholinothiazolo[4,5-b]pyridin-6-yl)oxazole-4-carboxamide hydrochloride;
131.	2-(2-aminopyridin-4-yl)-N-(5-(4-fluoropiperidin-1-yl)-2-morpholinothiazolo[4,5-b]pyridin-6-yl)oxazole-4-carboxamide hydrochloride;
132.	N-(5-(2-fluoropyridin-4-yl)-2-morpholinothiazolo[4,5-b]pyridin-6-yl)-2-(2-methylpyridin-4-yl)oxazole-4-carboxamide;
133.	N-(5-(4-fluoropiperidin-1-yl)-2-(3-hydroxypiperidin-1-yl)thiazolo[4,5-b]pyridin-6-yl)-2-(2-methylpyridin-4-yl)oxazole-4-carboxamide;
134.	N-(5-(4-aminopiperidin-1-yl)-2-(3-hydroxypiperidin-1-yl)thiazolo[4,5-b]pyridin-6-yl)-2-(2-methylpyridin-4-yl)oxazole-4-carboxamide hydrochloride; and

135.	N-(5-(2-hydroxypyridin-4-yl)-2-morpholinothiazolo[4,5-b]pyridin-6-yl)-2-(2-methylpyridin-4-yl)oxazole-4-carboxamide hydrochloride;
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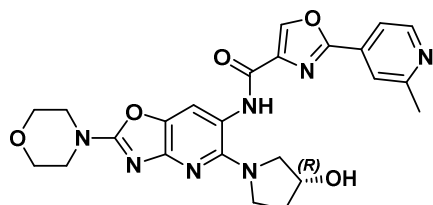
or a salt thereof.

40. The method of claim 39, wherein the compound of formula (I) is

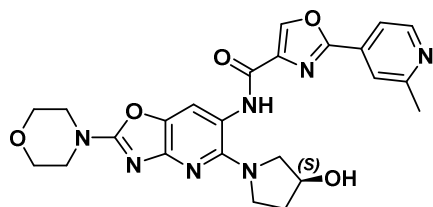


or a salt thereof.

41. The method of claim 39, wherein the compound of formula (I) is

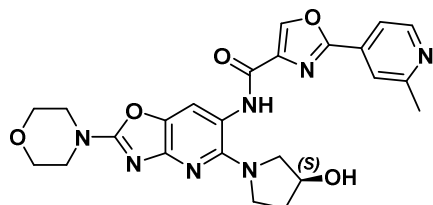


42. The method of claim 39, wherein the compound of formula (I) is

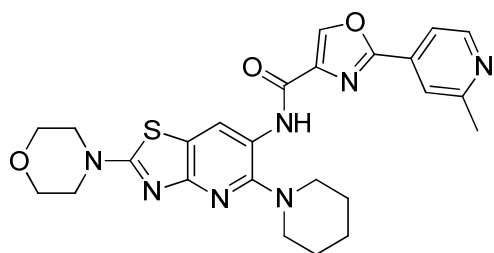


or a salt thereof.

43. The method of claim 39, wherein the compound of formula (I) is

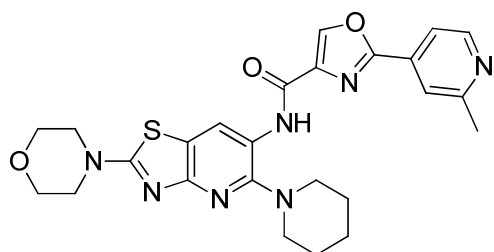


44. The method of claim 39, wherein the compound of formula (I) is

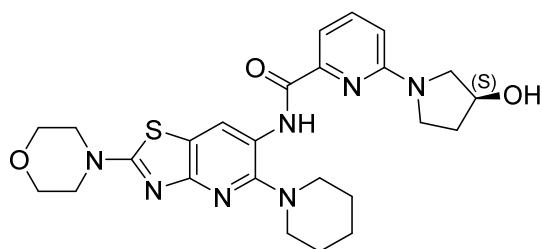


or a salt thereof.

45. The method of claim 39, wherein the compound of formula (I) is

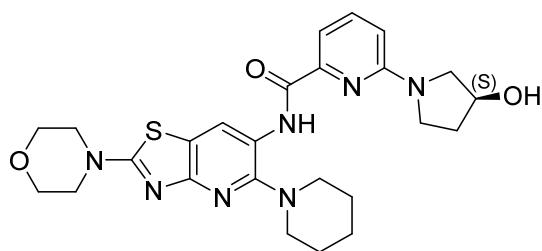


46. The method of claim 39, wherein the compound of formula (I) is

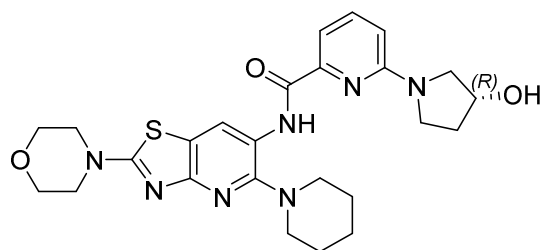


or a salt thereof.

47. The method of claim 39, wherein the compound of formula (I) is



48. The method of claim 39, wherein the compound of formula (I) is



or a salt thereof.

49. The method of claim 39, wherein the compound of formula (I) is

