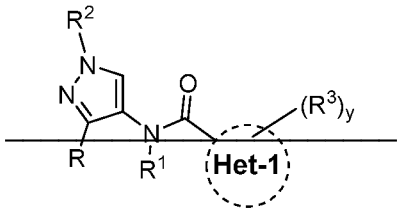
We claim:

1. A compound having a formula



or salt thereof, wherein:

R is aliphatic, heteroaliphatic, heteroaryl, aryl, halo, amide or CN;

R^1 is H, aliphatic or heteroaliphatic;

or R and R^1, together with the atoms to which they are attached, form a heterocyclyl ring;

R^2 is H, aliphatic, heteroaliphatic, heterocycloaliphatic, aryl, amide, heterocyclyl or araliphatic;

each R^3 independently is H, aliphatic, halogen, heteroaliphatic, -O-aliphatic, heterocyclyl, aryl, araliphatic, -O-heterocyclyl, hydroxyl, nitro, cyano, carboxyl, carboxyl ester, acyl, amide, amino, sulfonyl, sulfonamide, sulfanyl, sulfinyl, haloalkyl, alkylphosphate, or alkylphosphonate;

y is from 1 to 6; and

Het-1 is heteroaryl, provided that the compound is not a compound of WO 2011/043371.

2. The compound of claim 1, wherein Het-1 is a 5- or 6-membered heteroaryl.

3. The compound of claim 1 or claim 2, wherein Het-1 is furyl, thiophenyl, pyrazolyl, pyrrolyl, imidazolyl, oxazolyl, thiazolyl, isoxazolyl, isothiazolyl, 1,2,3-triazolyl, 1,2,4-triazolyl, 1,3,4-triazolyl, 1,2,3-oxadiazolyl, 1,2,4-oxadiazolyl, 1,3,4-oxadiazolyl, 1,2,5-oxadiazolyl, 1,2,3-thiadiazolyl, 1,2,4-thiadiazolyl, 1,3,4-thiadiazolyl, 1,2,5-thiadiazolyl, or tetrazolyl.

4. The compound of any one of claims 1-3, wherein Het-1 is furyl, thiazolyl or oxazolyl.

5. The compound of any one of claims 1-4, wherein:

R^1 is R^a, $-(CR^aR^a)_m-O-R^a$, $-(CH_2)_m-O-R^a$, $-(CR^aR^a)_m-O-(CR^aR^a)_m-O-R^a$ or $-(CH_2)_m-O-(CH_2)_m-O-R^a$;

each m independently is 1, 2 or 3;

R^a is independently for each occurrence H, D, C_{1-6}alkyl, C_{3-6}cycloalkyl, C_{3-6}cycloalkenyl or C_{3-6}heteroalicyclyl;

R^b is independently for each occurrence -OH, $-CF_3$, $-OR^c$, $-NR^dR^d$, -C(O)OH, $-C(O)R^c$, $-C(O)OR^c$, $-C(O)NR^dR^d$ or halogen;

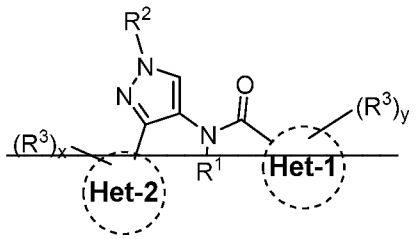
R^c is independently for each occurrence C_{1-6}alkyl, C_{3-6}cycloalkyl, C_{3-6}heteroalicyclyl, aralkyl, C_{1-6}alkyl substituted with 1, 2 or 3 R^e, C_{3-6}cycloalkyl substituted with 1, 2 or 3 R^e, or C_{3-6}heteroalicyclyl substituted with 1, 2 or 3 R^e;

R^d is independently for each occurrence H, C_{1-6}alkyl, C_{1-6}alkyl substituted with 1, 2 or 3 R^e, C_{3-6}cycloalkyl, C_{3-6}cycloalkyl optionally substituted with 1, 2 or 3 R^e, or two R^d groups together with the nitrogen bound thereto form a C_{3-6}heteroalicyclyl moiety; and

R^e is independently for each occurrence halogen, C_{1-6}alkyl, C_{3-6}cycloalkyl, C_{3-6}heteroalicyclyl, C_{1-6}alkyl-OH, $-OR^a$, $-OC(O)R^a$ or -O-aralkyl.

6. The compound of any one of claims 1-5, wherein R^1 is H.

7. The compound of any one of claims 1-6, having a formula



wherein:

x is from 1 to 6; and

Het-2 is heteroaryl.

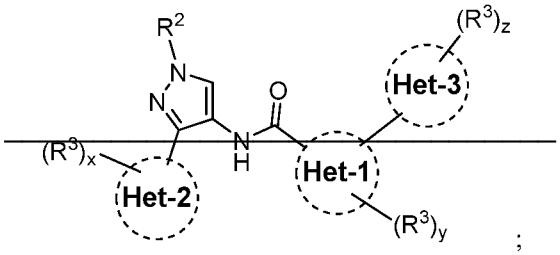
8. The compound of claim 7, wherein Het-2 is a 5- or 6-membered heteroaryl.

9. The compound of claim 7 or claim 8, wherein Het-2 is furyl, thiophenyl, pyrazolyl, pyrrolyl, imidazolyl, oxazolyl, thiazolyl, isoxazolyl, isothiazolyl, 1,2,3-triazolyl, 1,2,4-triazolyl, 1,3,4-triazolyl, 1,2,3-oxadiazolyl, 1,2,4-oxadiazolyl, 1,3,4-oxadiazolyl, 1,2,5-oxadiazolyl, 1,2,3-thiadiazolyl, 1,2,4-thiadiazolyl, 1,3,4-thiadiazolyl, 1,2,5-thiadiazolyl, tetrazolyl, pyrimidinyl, pyridinyl, 1,2,3-triazinyl, 1,2,4-triazinyl, 1,3,5-triazinyl, pyrazinyl, or pyridazinyl.

10. The compound of any one of claims 7-9, wherein Het-2 is pyridinyl, pyrimidinyl, pyrazinyl, oxadiazolyl, or thiazolyl.

11. The compound of any one of claims 7-10, wherein Het-2 is pyridinyl.

12. The compound of any one of claims 7-11, wherein the compound has a formula



;

Het-3 is heterocyclyl; and

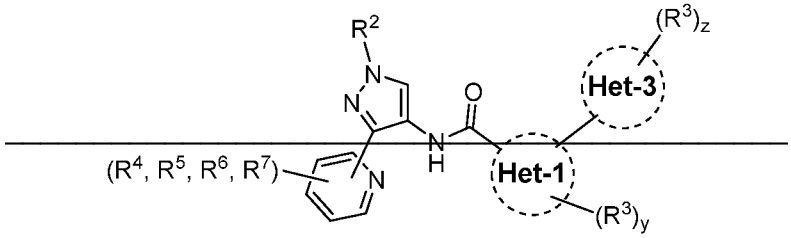
z is from 1 to 6.

13. The compound of claim 12, wherein Het-3 is a 5- or 6-membered heteroaryl.

14. The compound of claim 12 or claim 13, wherein Het-3 is furyl, thiophenyl, pyrazolyl, pyrrolyl, imidazolyl, oxazolyl, thiazolyl, isoxazolyl, isothiazolyl, 1,2,3-triazolyl, 1,2,4-triazolyl, 1,3,4-triazolyl, 1,2,3-oxadiazolyl, 1,2,4-oxadiazolyl, 1,3,4-oxadiazolyl, 1,2,5-oxadiazolyl, 1,2,3-thiadiazolyl, 1,2,4-thiadiazolyl, 1,3,4-thiadiazolyl, 1,2,5-thiadiazolyl, or tetrazolyl.

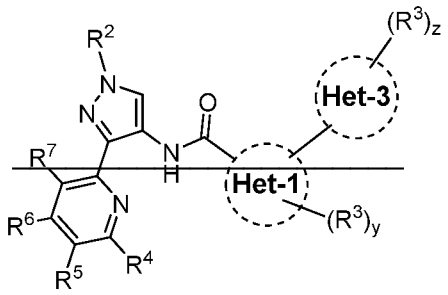
15. The compound of any one of claims 12-14, wherein Het-3 is pyrazolyl.

16. The compound of any one of claims 12-15, having a formula



wherein R^4, R^5, R^6 and R^7 are each independently H, aliphatic, heteroaliphatic, alkoxy, heterocyclyl, aryl, araliphatic, –O-heterocyclyl, hydroxyl, haloalkyl, halogen, nitro, cyano, carboxyl, carboxyl ester, acyl, amide, amino, sulfonyl, sulfonamide, sulfanyl, or sulfinyl.

17. The compound of claim 16, wherein the compound has a formula



.

18. The compound of claim 16 or claim 17, wherein R^4, R^5, R^6 and R^7 are each independently H, aliphatic, halogen, haloalkyl, heteroaliphatic, alkoxy, heterocyclyl, or –O-heterocyclyl.

19. The compound of any one of claims 16-18, wherein R^5 is H, halogen, haloalkyl, alkoxy, -O-heterocyclyl, or heterocyclyl.

20. The compound of any one of claims 16-19, wherein R^5 is H, F, CF_3, methoxy, morpholin-4-yl, 1-methylpiperidin-4-yl, -O-$CH_2C(CH_3)_2OH$, or –O-(oxetan-3-yl).

21. The compound of any one of claims 16-20, wherein R^4 is H, F or CF_3.

22. The compound of any one of claims 16-21, wherein R^7 is H, F, or CF_3.

23. The compound of any one of claims 16-22, wherein R^6 is H, F, or CF_3.

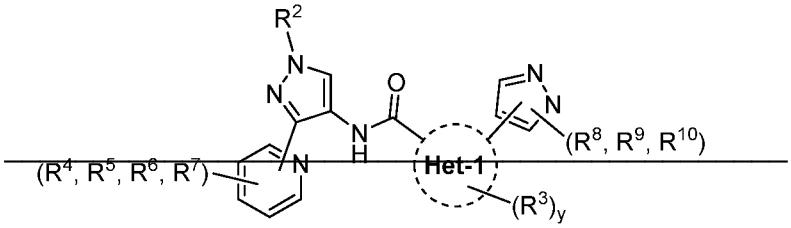
24. The compound of any one of claims 16-23, wherein R^4, R^5, R^6 and R^7 independently are H or F.

25. The compound of any one of claims 16-24, wherein one of R^4, R^5, R^6 and R^7 is F and the remainder are H.

26. The compound of any one of claims 16-24, wherein at least two of R^4, R^6 and R^7 are F.

27. The compound of any one of claims 16-24, wherein R^4, R^6 and R^7 are H.

28. The compound of any one of claims 16-27 having a formula

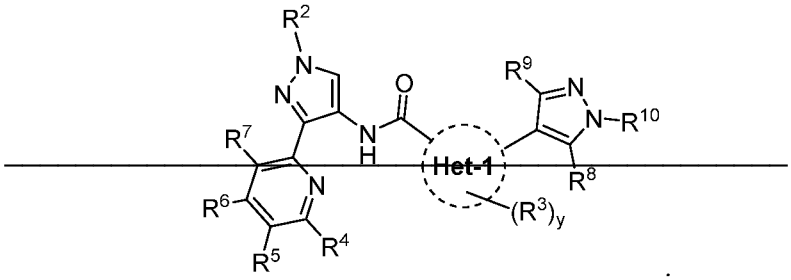


wherein:

R^8 and R^9 are each independently H, aliphatic, heteroaliphatic, aryl, heterocyclyl, sulfonyl, nitro, halogen, haloalkyl, carboxyl ester, cyano or amino; and

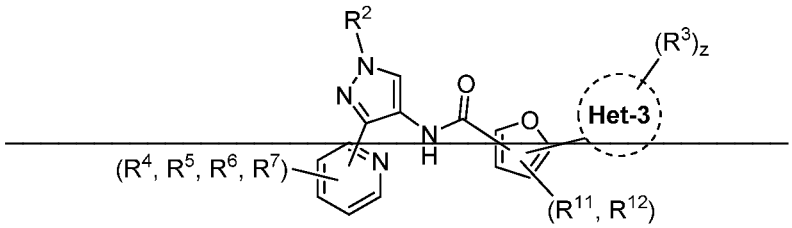
R^{10} is H, aliphatic, alkoxy, heteroaliphatic, carboxyl ester, araliphatic, NO_2, CN, OH, haloalkyl, acyl, alkyl phosphate or alkylphosphonate.

29. The compound of claim 28, wherein the compound has a formula



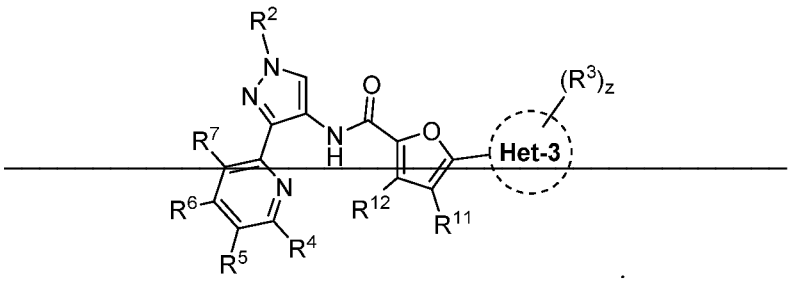
30. The compound of claim 28 or claim 29, wherein R^8 and R^9 are each independently H, halogen, haloalkyl, or alkyl.

31. The compound of any one of claims 16-30 having a formula

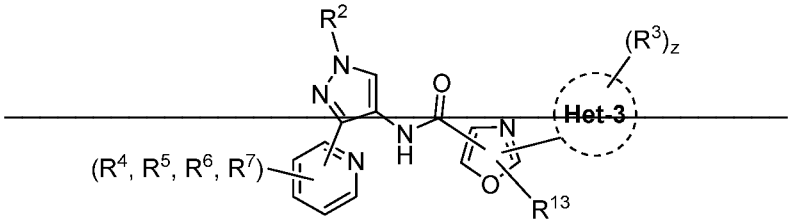


wherein R^{11} and R^{12} are each independently H, aliphatic, heteroaliphatic, aryl, heterocyclyl, sulfonyl, nitro, carboxyl ester, cyano or amino.

32. The compound of claim 31, wherein the compound has a formula

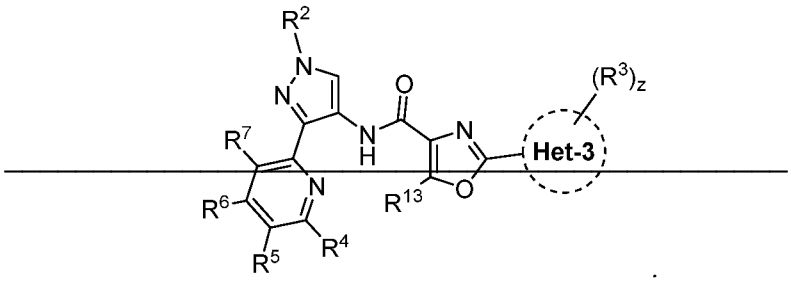


33. The compound of any one of claims 16-30 having a formula

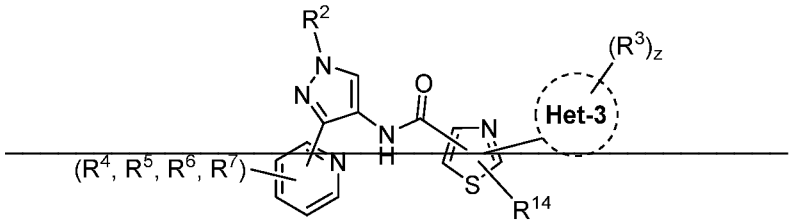


wherein R^{13} is H, aliphatic, heteroaliphatic, aryl, heterocyclyl, sulfonyl, nitro, carboxyl ester, cyano or amino.

34. The compound of claim 33, wherein the compound has a formula

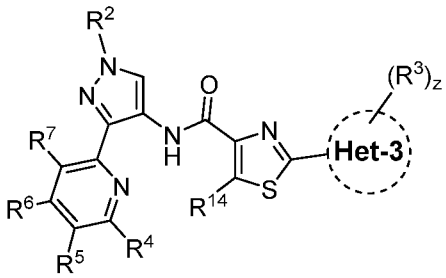


35. The compound of any one of claims 16-30 having a formula



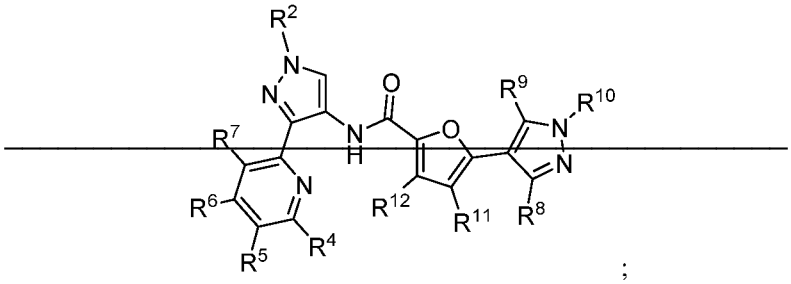
wherein R^{14} is H, aliphatic, heteroaliphatic, aryl, heterocyclyl, sulfonyl, nitro, carboxyl ester, cyano or amino.

36. The compound of claim 35, wherein the compound has a formula



37. The compound of any one of claims 30-36, wherein Het-3 is pyrazolyl.

38. The compound of claim 37, wherein the compound has a formula

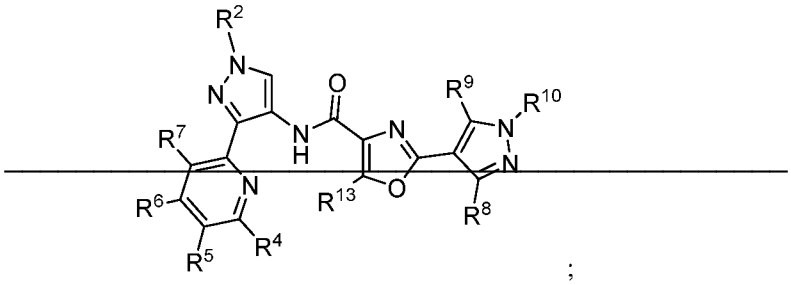


;

R^8 and R^9 are each independently H, aliphatic, heteroaliphatic, aryl, heterocyclyl, sulfonyl, nitro, halogen, haloalkyl, carboxyl ester, cyano or amino; and

R^{10} is H, aliphatic, alkoxy, heteroaliphatic, carboxyl ester, araliphatic, NO_2, CN, OH, haloalkyl, acyl, alkyl phosphate or alkylphosphonate.

39. The compound of claim 37, wherein the compound has a formula

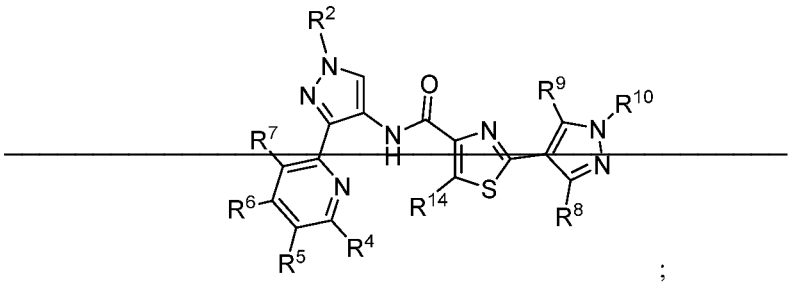


;

R^8 and R^9 are each independently H, aliphatic, heteroaliphatic, aryl, heterocyclyl, sulfonyl, nitro, halogen, haloalkyl, carboxyl ester, cyano or amino; and

R^{10} is H, aliphatic, alkoxy, heteroaliphatic, carboxyl ester, araliphatic, NO_2, CN, OH, haloalkyl, acyl, alkyl phosphate or alkylphosphonate.

40. The compound of claim 37, wherein the compound has a formula



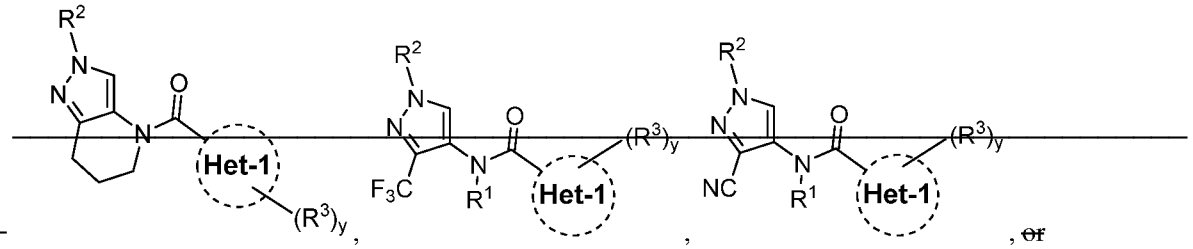
;

R^8 and R^9 are each independently H, aliphatic, heteroaliphatic, aryl, heterocyclyl, sulfonyl, nitro, halogen, haloalkyl, carboxyl ester, cyano or amino; and

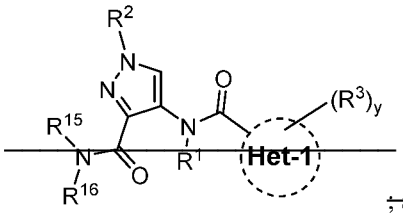
R^{10} is H, aliphatic, alkoxy, heteroaliphatic, carboxyl ester, araliphatic, NO_2, CN, OH, haloalkyl, acyl, alkyl phosphate or alkylphosphonate.

41. The compound of claim 1, wherein R is alkyl, amide, heteroaryl, or CN, or R and R^1, together with the atoms to which they are attached, form a heterocyclyl ring.

42. The compound of claim 41, wherein the compound has a formula selected from



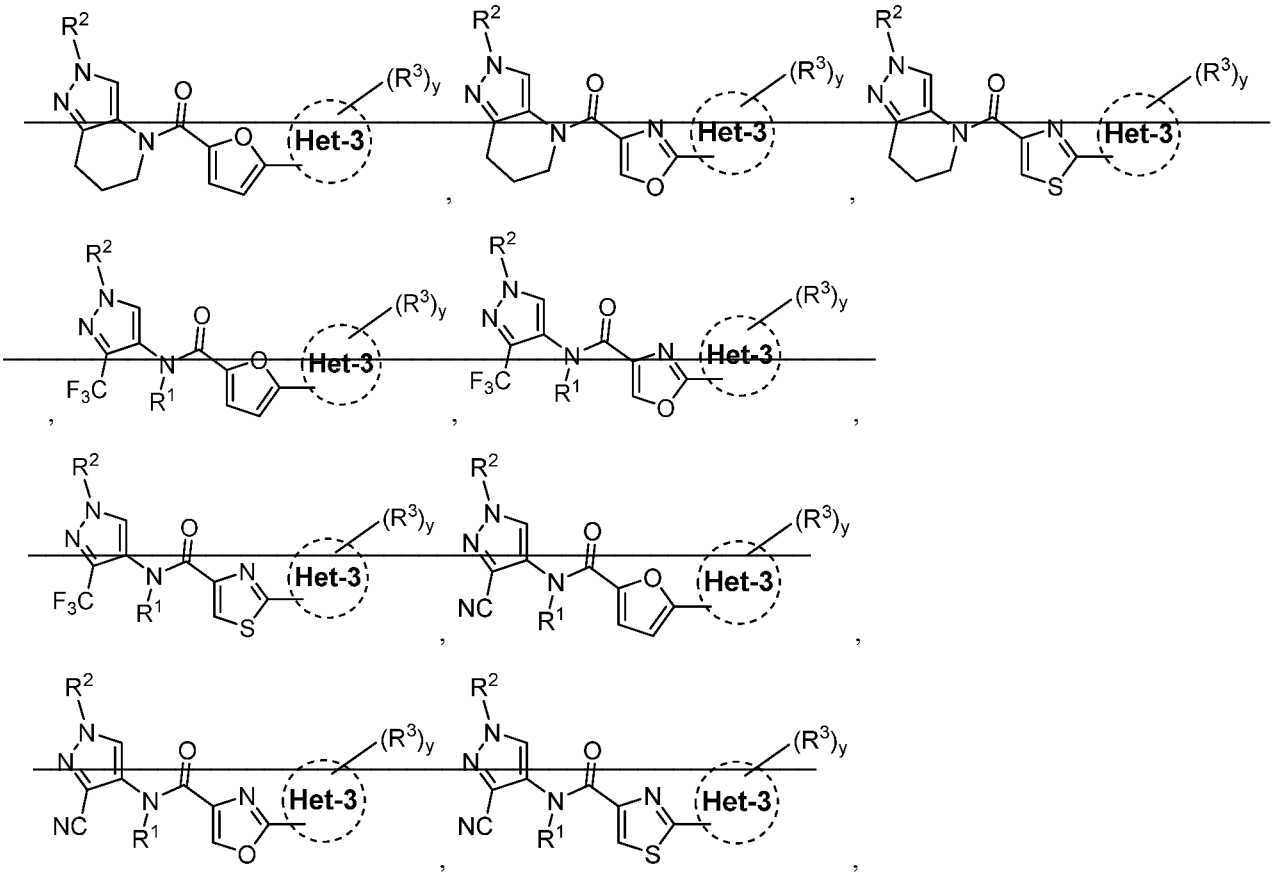
, or

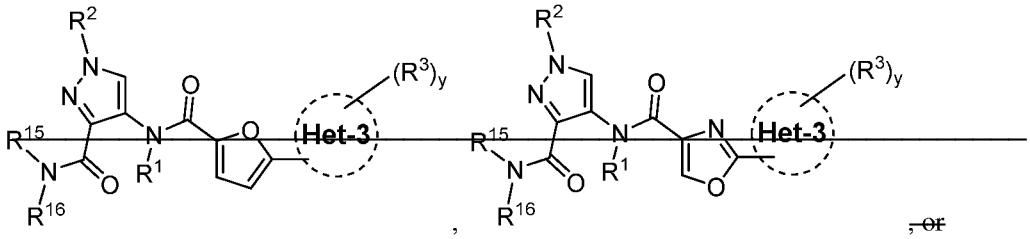


; and

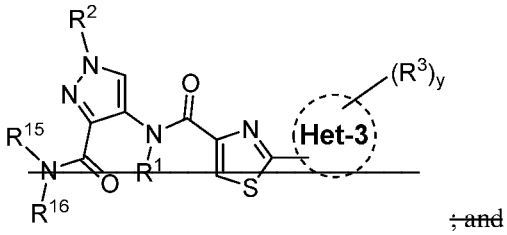
each of R^{15} and R^{16} independently is H, aliphatic, aryl, heteroaryl, or together with the nitrogen to which they are attached, form a heterocyclyl ring.

43. The compound of claim 41 or claim 42, wherein the compound has a formula selected from





, ~~, or~~

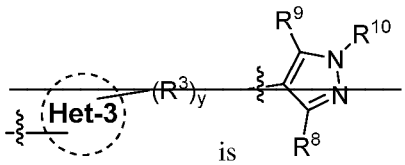


~~; and~~

~~Het-3 is heteroaryl.~~

~~44. The compound of claim 43, wherein Het-3 is pyrazolyl.~~

~~45. The compound of claim 43, wherein:~~



is ;

~~R^8 and R^9 are each independently H, aliphatic, heteroaliphatic, aryl, heterocyclyl, sulfonyl, nitro, halogen, haloalkyl, carboxyl ester, cyano or amino; and~~

~~R^{10} is H, aliphatic, alkoxy, heteroaliphatic, carboxyl ester, araliphatic, NO_2, CN, OH, haloalkyl, acyl, alkyl phosphate or alkylphosphonate.~~

~~46. The compound of any one of claims 28-30, 38-40 and 45, wherein R^{10} is H, alkyl, carboxyl ester, acyl, alkyl phosphate, alkyl phosphonate or aralkyl.~~

~~47. The compound of any one of claims 1-46, wherein R^2 is H, amide, heteroalicyclyl, heteroaliphatic, or aliphatic.~~

~~48. The compound of any one of claims 1-47, wherein R^2 is H, amide, alkyl, cycloalkyl, heteroaliphatic, heteroalicyclyl or haloalkyl.~~

~~49. The compound of any one of claims 1-48, wherein R^2 comprises cyclobutyl, azetidinyl, morpholinyl, 4-methylpiperazinyl, oxetanyl, tetrahydrofuranyl, tetrahydropyranyl, or a combination thereof.~~

50. The compound any one of claims 1-49, wherein R^2 is H, methyl, difluoromethyl, trifluoroethyl, isopropyl, tetrahydropyranyl, tetrahydrofuranyl, oxetanyl, N-*tert*-butyloxycarbonyl azetidin-3-yl, 3-methyoxy cyclobutyl, 3-benzyloxycyclobutyl, 3-ethyloxy cyclobutyl, 3-isopropyl cyclobutyl, 3-hydroxy cyclobutyl, 4-ethoxy cyclohexyl, 4-hydroxy cyclohexyl, 4-((2,2-difluoroethyl)amino)cyclohexyl, 3-ethyloxy cyclopentyl, or 3-hydroxy cyclopentyl.

51. The compound of any one of claims 1-50, wherein R^2 is R^a, R^b, R^a substituted with 1, 2, or 3 R^b, R^a substituted with R^b and R^c, R^a substituted with R^c, $-(CR^aR^a)_n-R^a$, $-(CH_2)_n-R^a$, $-(CR^aR^a)_n-R^b$, $-(CH_2)_n-R^b$, $-[(CH_2)_m-O-]_n-R^a$, $-[(CH_2)_m-O-]_n-[R^a$ substituted with 1, 2 or 3 $R^b]$, or $-(CH_2)_m-O-(CH_2)_m-O-R^a$ wherein each m and n independently are 1, 2 or 3.

52. The compound of any one of claims 28-30, 38-40 and 45-51, wherein:

R^2 is R^a, R^b, R^a substituted with 1, 2 or 3 R^b, R^a substituted with R^b and R^c, R^a substituted with R^c, $-(CR^aR^a)_n-R^a$, $-(CH_2)_n-R^a$, $-(CR^aR^a)_n-R^b$ or $-(CH_2)_n-R^b$;

each of R^4, R^5, R^6, and R^7 independently is R^a, R^b, Ra substituted with R^c, $-OR^a$, $-O-(CR^aR^a)_p-R^b$;

R^{10} is R^a, R^b, R^a substituted with $-OP(O)(R^f)_2$, R^a substituted with 1, 2 or 3 R^b, R^a substituted with R^c, R^a substituted with $-P(O)(R^f)_2$, aralkyl, $-(CR^aR^a)_n-R^a$, $-(CH_2)_n-R^a$ or $-C(O)C(R^a)_2NR^aR^b$

n is 1, 2 or 3;

p is 1, 2, or 3;

R^a is independently for each occurrence H, D, C_{1-6}alkyl, C_{3-6}cycloalkyl, C_{3-6}cycloalkenyl or C_{3-6}heteroalicyclyl;

R^b is independently for each occurrence -OH, $-CF_3$, $-OR^c$, $-NR^dR^d$, -C(O)OH, $-C(O)R^c$, $-C(O)OR^c$, $-C(O)NR^dR^d$ or halogen;

R^c is independently for each occurrence C_{1-6}alkyl, C_{3-6}cycloalkyl, C_{3-6}heteroalicyclyl, aralkyl, C_{1-6}alkyl substituted with 1, 2 or 3 R^e, C_{3-6}cycloalkyl substituted with 1, 2 or 3 R^e, or C_{3-6}heteroalicyclyl substituted with 1, 2 or 3 R^e;

R^d is independently for each occurrence H, C_{1-6}alkyl, C_{1-6}alkyl substituted with 1, 2 or 3 R^e, C_{3-6}cycloalkyl, C_{3-6}cycloalkyl optionally substituted with 1, 2 or 3 R^e, or two R^d groups together with the nitrogen bound thereto form a C_{3-6}heteroalicyclyl moiety optionally substituted with C_{1-6}alkyl, such as morpholinyl, piperidinyl, N-methylpiperidinyl or pyrrolidinyl;

R^e is independently for each occurrence halogen, C_{1-6}alkyl, C_{3-6}cycloalkyl, C_{3-6}heteroalicyclyl, C_{1-6}alkyl-OH, $-OR^a$, $-OC(O)R^a$ or -O-aralkyl;

R^f is independently for each occurrence $-OR^a$, $-O^-M^+$ or $-O^-[M^{2+}]_{0.5}$;

each M^+ independently is an alkali metal ion or an ammonium ion; and

M^{2+} is an alkaline metal earth ion.

53. The compound of any one of claims 1-52, wherein R^3 is H

54. The compound of any one of claims 1-53, wherein the compound is a salt.

55. The compound of claim 54, wherein the salt is a pharmaceutically acceptable acid addition salt.

56. The compound of claim 54 or claim 55, wherein the salt is a hydrochloride, formic acid or trifluoroacetic acid salt.

57. The compound of claim 54, wherein the salt is a pharmaceutically acceptable base addition salt.

58. The compound of claim 54 or claim 57, wherein the compound is a sodium, calcium, ammonium, trimethylamine, tris(hydroxymethyl)aminomethane, lysine, arginine, or potassium salt.

59. The compound of any one of claims 1-58, wherein at least one of R^1, R^2, R^3, R^4, R^5, R^6, R^7, R^8, R^9, R^{10}, R^{11}, R^{12}, R^{13} and R^{14} is substituted.

60. The compound of claim 59, wherein:

each substituent independently is selected from $-R^{60}$, halo, =O, $-OR^{70}$, $-SR^{70}$, $-N(R^{80})_2$, haloalkyl, perhaloalkyl, -CN, $-NO_2$, $=N_2$, $-N_3$, $-SO_2R^{70}$, $-SO_3^-M^+$, $-SO_3R^{70}$, $-OSO_2R^{70}$, $-OSO_3^-M^+$, $-OSO_3R^{70}$, $-P(O)(O^-)_2(M^+)_2$, $-P(O)(O^-)_2M^{2+}$, $-P(O)(OR^{70})O^-M^+$, $-P(O)(OR^{70})_2$, $-C(O)R^{70}$, $-C(S)R^{70}$, $-C(NR^{70})R^{70}$, $-CO_2^-M^+$, $-CO_2R^{70}$, $-C(S)OR^{70}$, $-C(O)N(R^{80})_2$, $-C(NR^{70})(R^{80})_2$, $-OC(O)R^{70}$, $-OC(S)R^{70}$, $-OCO_2^-M^+$, $-OCO_2R^{70}$, $-OC(S)OR^{70}$, $-NR^{70}C(O)R^{70}$, $-NR^{70}C(S)R^{70}$, $-NR^{70}CO_2^-M^+$, $-NR^{70}CO_2R^{70}$, $-NR^{70}C(S)OR^{70}$, $-NR^{70}C(O)N(R^{80})_2$, $-NR^{70}C(NR^{70})R^{70}$ and $-NR^{70}C(NR^{70})N(R^{80})_2$;

R^{60} is C_{1-6}alkyl;

each R^{70} is independently for each occurrence hydrogen or R^{60};

each R^{80} is independently for each occurrence R^{70} or alternatively, two R^{80} groups, taken together with the nitrogen atom to which they are bonded, form a 3- to 7-membered heteroalicyclyl which optionally includes from 1 to 4 of the same or different additional heteroatoms selected from O, N and S, of which N optionally has H or C_1-C_3alkyl substitution; and

each M^+ is a counter ion with a net single positive charge.

61. A compound selected from

I-1: N-(1-(2-hydroxy-2-methylpropyl)-3-(pyridin-2-yl)-1H-pyrazol-4-yl)-5-(1-methyl-1H-pyrazol-4-yl)furan-2-carboxamide 2,2,2-trifluoroacetate;

I-2: N-(1-(2-hydroxy-2-methylpropyl)-3-(pyridin-2-yl)-1H-pyrazol-4-yl)-5-(1-methyl-1H-pyrazol-4-yl)furan-2-carboxamide;

I-3: N-(1-(2-hydroxy-2-methylpropyl)-3-(pyridin-2-yl)-1H-pyrazol-4-yl)-5-(1H-pyrazol-4-yl)furan-2-carboxamide;

I-4: *tert*-butyl 4-(5-((1-(2-ethoxyethyl)-3-(pyridin-2-yl)-1H-pyrazol-4-yl)carbamoyl)furan-2-yl)-1H-pyrazole-1-carboxylate;

I-5: N-(1-(2-methoxyethyl)-3-(pyridin-2-yl)-1H-pyrazol-4-yl)-5-(1H-pyrazol-4-yl)furan-2-carboxamide;

I-6: N-(1-(2-methoxyethyl)-3-(pyridin-2-yl)-1H-pyrazol-4-yl)-5-(3-methyl-1H-pyrazol-4-yl)furan-2-carboxamide formic acid;

I-7: N-(1-(2-methoxyethyl)-3-(pyrimidin-2-yl)-1H-pyrazol-4-yl)-5-(1H-pyrazol-4-yl)furan-2-carboxamide;

I-8: N-(1-(2-methoxyethyl)-3-(pyrimidin-2-yl)-1H-pyrazol-4-yl)-5-(3-methyl-1H-pyrazol-4-yl)furan-2-carboxamide;

I-9: N-(1-(2-methoxyethyl)-3-(pyridin-2-yl)-1H-pyrazol-4-yl)-5-(3-methyl-1H-pyrazol-4-yl)furan-2-carboxamide;

I-10: di-*tert*-butyl ((4-(5-((1-(2-methoxyethyl)-3-(pyridin-2-yl)-1H-pyrazol-4-yl)carbamoyl)furan-2-yl)-1H-pyrazol-1-yl)methyl) phosphate;

I-11: *tert*-butyl ((4-(5-((1-(2-methoxyethyl)-3-(pyridin-2-yl)-1H-pyrazol-4-yl)carbamoyl)furan-2-yl)-1H-pyrazol-1-yl)methyl) hydrogen phosphate;

I-12: (4-(5-((1-(2-methoxyethyl)-3-(pyridin-2-yl)-1H-pyrazol-4-yl)carbamoyl)furan-2-yl)-1H-pyrazol-1-yl)methyl dihydrogen phosphate;

I-13: N-(1-(2-methoxyethyl)-3-(pyridin-2-yl)-1H-pyrazol-4-yl)-5-(3-(trifluoromethyl)-1H-pyrazol-4-yl)furan-2-carboxamide;

I-14: sodium (4-(5-((1-(2-methoxyethyl)-3-(pyridin-2-yl)-1H-pyrazol-4-yl)carbamoyl)furan-2-yl)-1H-pyrazol-1-yl)methyl phosphate;

I-15: N-(1-(2-hydroxyethyl)-3-(pyrimidin-2-yl)-1H-pyrazol-4-yl)-5-(1H-pyrazol-4-yl)furan-2-carboxamide;

I-16: N-(1-(2-(2-methoxyethoxy)ethyl)-3-(pyridin-2-yl)-1H-pyrazol-4-yl)-5-(1H-pyrazol-4-yl)furan-2-carboxamide;

I-17: N-(1-(2-(2-methoxyethoxy)ethyl)-3-(pyridin-2-yl)-1H-pyrazol-4-yl)-5-(1H-pyrazol-4-yl)furan-2-carboxamide hydrochloride salt;

I-18: N-(1-(2-(2-methoxyethoxy)ethyl)-3-(pyridin-2-yl)-1H-pyrazol-4-yl)-5-(3-methyl-1H-pyrazol-4-yl)furan-2-carboxamide;

I-19: 1-(isobutyryloxy)ethyl 4-(5-((1-(2-methoxyethyl)-3-(pyridin-2-yl)-1H-pyrazol-4-yl)carbamoyl)furan-2-yl)-1H-pyrazole-1-carboxylate;

I-20: *tert*-butyl (S)-(1-(4-(5-((1-(2-methoxyethyl)-3-(pyridin-2-yl)-1H-pyrazol-4-yl)carbamoyl)furan-2-yl)-1H-pyrazol-1-yl)-3-methyl-1-oxobutan-2-yl)carbamate;

I-21: 1-methylcyclopropyl 4-(5-((1-(2-methoxyethyl)-3-(pyridin-2-yl)-1H-pyrazol-4-yl)carbamoyl)furan-2-yl)-1H-pyrazole-1-carboxylate;

I-22: 1-((4-methoxybenzyl)oxy)-2-methylpropan-2-yl 4-(5-((1-(2-methoxyethyl)-3-(pyridin-2-yl)-1H-pyrazol-4-yl)carbamoyl)furan-2-yl)-1H-pyrazole-1-carboxylate;

I-23: 5-(1H-pyrazol-4-yl)-N-(3-(pyridin-2-yl)-1-(tetrahydro-2H-pyran-4-yl)-1H-pyrazol-4-yl)furan-2-carboxamide;

I-24: 5-(5-nitro-1H-pyrrol-3-yl)-N-(1-(propoxymethyl)-3-(pyridin-2-yl)-1H-pyrazol-4-yl)furan-2-carboxamide;

I-25: N-(1-(oxetan-3-yl)-3-(pyridin-2-yl)-1H-pyrazol-4-yl)-5-(1H-pyrazol-4-yl)furan-2-carboxamide;

I-26: 5-(1-methyl-1H-pyrazol-4-yl)-N-(1-(oxetan-3-yl)-3-(pyridin-2-yl)-1H-pyrazol-4-yl)furan-2-carboxamide;

I-27: N-(1-((1,3-trans)-3-ethoxycyclobutyl)-3-(pyridin-2-yl)-1H-pyrazol-4-yl)-5-(1H-pyrazol-4-yl)furan-2-carboxamide;

I-28: N-(1-((1,3-cis)-3-ethoxycyclobutyl)-3-(pyridin-2-yl)-1H-pyrazol-4-yl)-5-(1H-pyrazol-4-yl)furan-2-carboxamide;

I-29: N-(1-((1,3-cis)-3-ethoxycyclobutyl)-3-(pyridin-2-yl)-1H-pyrazol-4-yl)-5-(3-methyl-1H-pyrazol-4-yl)furan-2-carboxamide;

I-30: 5-(3-methyl-1H-pyrazol-4-yl)-N-(1-(oxetan-3-yl)-3-(pyridin-2-yl)-1H-pyrazol-4-yl)furan-2-carboxamide;

I-31: N-(1-((1,3-cis)-3-ethoxycyclobutyl)-3-(pyridin-2-yl)-1H-pyrazol-4-yl)-5-(1-methyl-1H-pyrazol-4-yl)furan-2-carboxamide;

I-32: N-(1-((1,3-cis)-3-hydroxycyclobutyl)-3-(pyridin-2-yl)-1H-pyrazol-4-yl)-5-(1H-pyrazol-4-yl)furan-2-carboxamide;

I-33: N-(1-((1s,3s)-3-(dimethylamino)cyclobutyl)-3-(pyridin-2-yl)-1H-pyrazol-4-yl)-5-(1H-pyrazol-4-yl)furan-2-carboxamide;

I-34: N-(1-((1s,3s)-3-(dimethylamino)cyclobutyl)-3-(pyridin-2-yl)-1H-pyrazol-4-yl)-5-(1H-pyrazol-4-yl)furan-2-carboxamide formate;

I-35: (4-(5-((1-((1,3-cis)-3-ethoxycyclobutyl)-3-(pyridin-2-yl)-1H-pyrazol-4-yl)carbamoyl)furan-2-yl)-1H-pyrazol-1-yl)methyl phosphate bis-sodium salt;

I-36: (4-(5-((1-((1s,3s)-3-ethoxycyclobutyl)-3-(pyridin-2-yl)-1H-pyrazol-4-yl)carbamoyl)furan-2-yl)-1H-pyrazol-1-yl)methyl dihydrogen phosphate;

I-37: N-(1-(2-ethoxyethyl)-3-(pyridin-2-yl)-1H-pyrazol-4-yl)-5-(1H-pyrazol-4-yl)furan-2-carboxamide formate;

I-38: N-(1-(2-ethoxyethyl)-3-(pyridin-2-yl)-1H-pyrazol-4-yl)-5-(1H-pyrazol-4-yl)furan-2-carboxamide;

I-39: N-(1-(2-ethoxyethyl)-3-(pyridin-2-yl)-1H-pyrazol-4-yl)-5-(1-ethyl-1H-pyrazol-4-yl)furan-2-carboxamide formate;

I-40: N-(1-(2-ethoxyethyl)-3-(pyridin-2-yl)-1H-pyrazol-4-yl)-5-(1-ethyl-1H-pyrazol-4-yl)furan-2-carboxamide;

I-41: N-(1-(2-ethoxyethyl)-3-(pyridin-2-yl)-1H-pyrazol-4-yl)-5-(3-(trifluoromethyl)-1H-pyrazol-4-yl)furan-2-carboxamide formate;

I-42: N-(1-(2-ethoxyethyl)-3-(pyridin-2-yl)-1H-pyrazol-4-yl)-5-(3-(trifluoromethyl)-1H-pyrazol-4-yl)furan-2-carboxamide;

I-43: N-(1-(2-ethoxyethyl)-3-(pyridin-2-yl)-1H-pyrazol-4-yl)-5-(1-isopentyl-1H-pyrazol-4-yl)furan-2-carboxamide formate;

I-44: N-(1-(2-ethoxyethyl)-3-(pyridin-2-yl)-1H-pyrazol-4-yl)-5-(1-isopentyl-1H-pyrazol-4-yl)furan-2-carboxamide;

I-45: N-(1-(2-ethoxyethyl)-3-(pyridin-2-yl)-1H-pyrazol-4-yl)-5-(1-methyl-1H-pyrazol-4-yl)furan-2-carboxamide formate;

I-46: N-(1-(2-ethoxyethyl)-3-(pyridin-2-yl)-1H-pyrazol-4-yl)-5-(1-methyl-1H-pyrazol-4-yl)furan-2-carboxamide;

I-47: 5-(1H-pyrazol-4-yl)-N-(3-(pyridin-2-yl)-1H-pyrazol-4-yl)furan-2-carboxamide;

I-48: 5-(1-((3-methyloxetan-3-yl)methyl)-1H-pyrazol-4-yl)-N-(1-((3-methyloxetan-3-yl)methyl)-3-(pyridin-2-yl)-1H-pyrazol-4-yl)furan-2-carboxamide formate;

I-49: 5-(1-((3-methyloxetan-3-yl)methyl)-1H-pyrazol-4-yl)-N-(1-((3-methyloxetan-3-yl)methyl)-3-(pyridin-2-yl)-1H-pyrazol-4-yl)furan-2-carboxamide;

I-50: N-(2-(2-methoxyethoxy)ethyl)-5-(1-(2-(2-methoxyethoxy)ethyl)-1H-pyrazol-4-yl)-N-(1-(2-(2-methoxyethoxy)ethyl)-3-(pyridin-2-yl)-1H-pyrazol-4-yl)furan-2-carboxamide formate;

I-51: N-(2-(2-methoxyethoxy)ethyl)-5-(1-(2-(2-methoxyethoxy)ethyl)-1H-pyrazol-4-yl)-N-(1-(2-(2-methoxyethoxy)ethyl)-3-(pyridin-2-yl)-1H-pyrazol-4-yl)furan-2-carboxamide;

I-52: 5-(1-(2-(2-methoxyethoxy)ethyl)-1H-pyrazol-4-yl)-N-(1-(2-(2-methoxyethoxy)ethyl)-3-(pyridin-2-yl)-1H-pyrazol-4-yl)furan-2-carboxamide formate;

I-53: 5-(1-(2-(2-methoxyethoxy)ethyl)-1H-pyrazol-4-yl)-N-(1-(2-(2-methoxyethoxy)ethyl)-3-(pyridin-2-yl)-1H-pyrazol-4-yl)furan-2-carboxamide;

I-54: (4-(5-((1-(2-ethoxyethyl)-3-(pyridin-2-yl)-1H-pyrazol-4-yl)carbamoyl)furan-2-yl)-1H-pyrazol-1-yl)methyl dihydrogen phosphate;

I-55: sodium (4-(5-((1-(2-ethoxyethyl)-3-(pyridin-2-yl)-1H-pyrazol-4-yl)carbamoyl)furan-2-yl)-1H-pyrazol-1-yl)methyl phosphate;

I-56: N-(1-(2-ethoxyethyl)-3-(pyridin-2-yl)-1H-pyrazol-4-yl)-5-(3-methyl-1H-pyrazol-4-yl)furan-2-carboxamide formate;

I-57: N-(1-(2-ethoxyethyl)-3-(pyridin-2-yl)-1H-pyrazol-4-yl)-5-(3-methyl-1H-pyrazol-4-yl)furan-2-carboxamide;

I-58: 5-(3,5-dimethyl-1H-pyrazol-4-yl)-N-(1-(2-ethoxyethyl)-3-(pyridin-2-yl)-1H-pyrazol-4-yl)furan-2-carboxamide formate;

I-59: 5-(3,5-dimethyl-1H-pyrazol-4-yl)-N-(1-(2-ethoxyethyl)-3-(pyridin-2-yl)-1H-pyrazol-4-yl)furan-2-carboxamide;

I-60: 5-(1H-pyrazol-4-yl)-N-(1-(tetrahydro-2H-pyran-4-yl)-3-(thiazol-2-yl)-1H-pyrazol-4-yl)furan-2-carboxamide formate;

I-61: 5-(1H-pyrazol-4-yl)-N-(1-(tetrahydro-2H-pyran-4-yl)-3-(thiazol-2-yl)-1H-pyrazol-4-yl)furan-2-carboxamide;

I-62: N-(1-((1s,3s)-3-ethoxycyclobutyl)-3-(thiazol-2-yl)-1H-pyrazol-4-yl)-5-(1H-pyrazol-4-yl)furan-2-carboxamide formate;

I-63: N-(1-((1s,3s)-3-ethoxycyclobutyl)-3-(thiazol-2-yl)-1H-pyrazol-4-yl)-5-(1H-pyrazol-4-yl)furan-2-carboxamide;

I-64: N-(1-(2-(2-methoxyethoxy)ethyl)-3-(thiazol-2-yl)-1H-pyrazol-4-yl)-5-(1H-pyrazol-4-yl)furan-2-carboxamide;

I-65: 5-(1H-pyrazol-4-yl)-N-(1-(tetrahydro-2H-pyran-4-yl)-3-(thiazol-2-yl)-1H-pyrazol-4-yl)furan-2-carboxamide;

I-66: 5-(1H-pyrazol-4-yl)-N-(1-(tetrahydro-2H-pyran-4-yl)-3-(thiazol-2-yl)-1H-pyrazol-4-yl)furan-2-carboxamide;

I-67: N-{1-Methyl-3-(pyridine-2-yl)-1*H*-pyrazol-4-yl}-5-(1*H*-pyrazol-4-yl)furan-2-carboxamide, formate salt;

I-68: 5-(1-Methyl-1*H*-pyrazol-4-yl)-N-{1-methyl-3-(pyridine-2-yl)-1*H*-pyrazol-4-yl}furan-2-carboxamide;

I-69: 5-(1-Methyl-1*H*-pyrazol-4-yl)-N-{1-methyl-3-(pyridine-2-yl)-1*H*-pyrazol-4-yl}furan-2-carboxamide, formate salt;

I-70: *tert*-Butyl-3-[4-{5-(1H-pyrazole-4-yl)furan-2-carboxamido}-3-(pyridine-2-yl)-1H-pyrazol-1-yl]azetidine-1-carboxylate, formate salt;

I-71: N-{1-(3-Methoxycyclobutyl)-3-(pyridine-2-yl)-1H-pyrazol-4-yl}-5-(1H-pyrazol-4-yl)furan-2-carboxamide, formate salt, Cis isomer;

I-72: N-{1-(3-Methoxycyclobutyl)-3-(pyridine-2-yl)-1H-pyrazol-4-yl}-5-(1H-pyrazol-4-yl)furan-2-carboxamide, Cis isomer;

I-73: N-{1-(3-Benzyloxy)cyclobutyl)-3-(pyridine-2-yl)-1H-pyrazol-4-yl}-5-(1H-pyrazol-4-yl)furan-2-carboxamide, Trans isomer;

I-74: *tert*-Butyl-3-[4-{5-(1H-pyrazole-4-yl)furan-2-carboxamido}-3-(pyridine-2-yl)-1H-pyrazol-1-yl]azetidine-1-carboxylate;

I-75: N-(1-((1s,3s)-3-methoxycyclobutyl)-3-(pyridin-2-yl)-1H-pyrazol-4-yl)-5-(1H-pyrazol-4-yl)furan-2-carboxamide formate;

I-76: N-(1-((1s,3s)-3-methoxycyclobutyl)-3-(pyridin-2-yl)-1H-pyrazol-4-yl)-5-(1H-pyrazol-4-yl)furan-2-carboxamide;

I-77: N-{1-Methyl-3-(pyridine-2-yl)-1*H*-pyrazol-4-yl}-5-(1*H*-pyrazol-4-yl)furan-2-carboxamide, free base;

I-78: N-{1-(Azetidin-3-yl)-3-(pyridine-2-yl)-1H-pyrazol-4-yl}-5-(1H-pyrazol-4-yl)furan-2-carboxamide, TFA salt;

I-79: N-{1-(Azetidin-3-yl)-3-(pyridine-2-yl)-1H-pyrazol-4-yl}-5-(1H-pyrazol-4-yl)furan-2-carboxamide;

I-80: Di-*tert*-butyl-[[4-{4-(5-((1-methyl-3-(pyridine-2-yl)-1H-pyrazol-4-yl)carbamoyl)furan-2-yl)-1H-pyrazol-1-yl}methyl] phosphate;

I-81: [4-{5-((1-Methyl-3-(pyridine-2-yl)-1H-pyrazol-4-yl)carbamoyl)furan-2yl}-1H-pyrazol-1-yl]methyl dihydrogen phosphate;

I-82: Sodium [4-{5-((1-Methyl-3-(pyridine-2-yl)-1H-pyrazol-4-yl)carbamoyl)furan-2-yl}-1H-pyrazol-1-yl]methyl phosphate;

I-83: N-{1-(1-Acetylazetidin-3-yl)-3-(pyridine-2-yl)-1H-pyrazol-4-yl}-5-(1H-pyrazol-4-yl)furan-2-carboxamide, free base;

I-84: 3-[4-{5-(1H-Pyrazol-4-yl)furan-2-carboxamido}-3-(pyridine-2-yl)-1H-pyrazol-1-yl]-N-(*tert*-butyl)azetidine-1-carboxamide, free base;

I-85: 3-[4-{5-(1H-Pyrazol-4-yl)furan-2-carboxamido}-3-(pyridine-2-yl)-1H-pyrazol-1-yl]-N-isopropylazetidine-1-carboxamide, free base;

I-86: 3-[4-{5-(1H-Pyrazol-4-yl)furan-2-carboxamido}-3-(pyridine-2-yl)-1H-pyrazol-1-yl]-N-propylazetidine-1-carboxamide, free base.

I-87: 3-[4-{5-(1H-Pyrazol-4-yl)furan-2-carboxamido}-3-(pyridine-2-yl)-1H-pyrazol-1-yl]-N-cyclopropylazetidine-1-carboxamide, formate salt;

I-88: 3-[4-{5-(1H-Pyrazol-4-yl)furan-2-carboxamido}-3-(pyridine-2-yl)-1H-pyrazol-1-yl]-N-cyclopropylazetidine-1-carboxamide;

I-89: N-[1-{1-(Cyclopropanecarbonyl)azetidin-3-yl}-3-(pyridine-2-yl)-1H-pyrazol-4-yl]-5-(1H-pyrazol-4-yl)furan-2-carboxamide, formate salt;

I-90: N-[1-{1-(Cyclopropanecarbonyl)azetidin-3-yl}-3-(pyridine-2-yl)-1H-pyrazol-4-yl]-5-(1H-pyrazol-4-yl)furan-2-carboxamide;

I-91: N-[1-{1-Pivaloylazetidin-3-yl}-3-(pyridine-2-yl)-1H-pyrazol-4-yl]-5-(1H-pyrazol-4-yl)furan-2-carboxamide, formate salt;

I-92: N-[1-{1-Pivaloylazetidin-3-yl}-3-(pyridine-2-yl)-1H-pyrazol-4-yl]-5-(1H-pyrazol-4-yl)furan-2-carboxamide;

I-93: 5-(1H-Pyrazol-4-yl)-N-{3-(pyridine-2-yl)-1-(pyrrolidine-1-carbonyl)azetidin-3-yl}-1H-pyrazol-4-yl)furan-2-carboxamide, formate salt;

I-94: 5-(1H-Pyrazol-4-yl)-N-{3-(pyridine-2-yl)-1-(pyrrolidine-1-carbonyl)azetidin-3-yl}-1H-pyrazol-4-yl)furan-2-carboxamide;

I-95: N-[1-{1-Isobutyrylazetidin-3-yl}-3-(pyridine-2-yl)-1H-pyrazol-4-yl]-5-(1H-pyrazol-4-yl)furan-2-carboxamide, formate salt;

I-96: N-[1-{1-Isobutyrylazetidin-3-yl}-3-(pyridine-2-yl)-1H-pyrazol-4-yl]-5-(1H-pyrazol-4-yl)furan-2-carboxamide;

I-97: N-(1H-Pyrazol-4-yl)-N-{3-(pyridine-2-yl)-1-{1-(2,2,2-trifluoroethyl)azetidin-3-yl}-1H-pyrazol-4-yl}furan-2-carboxamide, TFA salt;

I-98: N-(1H-Pyrazol-4-yl)-N-{3-(pyridine-2-yl)-1-{1-(2,2,2-trifluoroethyl)azetidin-3-yl}-1H-pyrazol-4-yl}furan-2-carboxamide;

I-99: N-[1-{1-Butyrylazetidin-3-yl}-3-(pyridine-2-yl)-1H-pyrazol-4-yl]-5-(1H-pyrazol-4-yl)furan-2-carboxamide, formate salt;

I-100: N-[1-{1-Butyrylazetidin-3-yl}-3-(pyridine-2-yl)-1H-pyrazol-4-yl]-5-(1H-pyrazol-4-yl)furan-2-carboxamide;

I-101: N-{1-(1-Methylazetidin-3-yl)-3-(pyridine-2-yl)-1H-pyrazol-4-yl}-5-(1H-pyrazol-4-yl)furan-2-carboxamide, formate salt;

I-102: N-{1-(1-Methylazetidin-3-yl)-3-(pyridine-2-yl)-1H-pyrazol-4-yl}-5-(1H-pyrazol-4-yl)furan-2-carboxamide;

I-103: N-[1-{1-(2,2-difluorocyclopropane-1-carbonyl)azetidin-3-yl}-3-(pyridine-2-yl)-1H-pyrazol-4-yl]-5-(1H-pyrazol-4-yl)furan-2-carboxamide, formate salt;

I-104: N-[1-{1-(2,2-difluorocyclopropane-1-carbonyl)azetidin-3-yl}-3-(pyridine-2-yl)-1H-pyrazol-4-yl]-5-(1H-pyrazol-4-yl)furan-2-carboxamide;

I-105: N-(1-methyl-3-(5-morpholinopyridin-2-yl)-1H-pyrazol-4-yl)-5-(1H-pyrazol-4-yl)furan-2-carboxamide;

I-106: N-(1-methyl-3-(5-(4-methylpiperazin-1-yl)pyridin-2-yl)-1H-pyrazol-4-yl)-5-(1H-pyrazol-4-yl)furan-2-carboxamide;

I-107: N-(3-(5-(2-hydroxy-2-methylpropoxy)pyridin-2-yl)-1-methyl-1H-pyrazol-4-yl)-5-(1H-pyrazol-4-yl)furan-2-carboxamide;

I-108: N-(1-methyl-3-(5-(oxetan-3-yloxy)pyridin-2-yl)-1H-pyrazol-4-yl)-5-(1H-pyrazol-4-yl)furan-2-carboxamide;

I-109: N-(3-(5-methoxypyridin-2-yl)-1-methyl-1H-pyrazol-4-yl)-5-(1H-pyrazol-4-yl)furan-2-carboxamide;

I-110: N-(1-isopropyl-3-(pyridin-2-yl)-1H-pyrazol-4-yl)-5-(1H-pyrazol-4-yl)furan-2-carboxamide;

I-111: N-(1-(2-morpholinoethyl)-3-(pyridin-2-yl)-1H-pyrazol-4-yl)-5-(1H-pyrazol-4-yl)furan-2-carboxamide;

~~I-112: N-(1-(2-(4-methylpiperazin-1-yl)ethyl)-3-(pyridin-2-yl)-1H-pyrazol-4-yl)-5-(1H-pyrazol-4-yl)furan-2-carboxamide;~~

~~I-113: 5-(1H-pyrazol-3-yl)-N-(3-(pyridin-2-yl)-1-(2-(2,2,2-trifluoroethoxy)ethyl)-1H-pyrazol-4-yl)furan-2-carboxamide;~~

~~I-114: N-(1-((1s,3s)-3-isopropoxycyclobutyl)-3-(pyridin-2-yl)-1H-pyrazol-4-yl)-5-(1H-pyrazol-4-yl)furan-2-carboxamide;~~

~~I-115: N-(1-(difluoromethyl)-3-(pyridin-2-yl)-1H-pyrazol-4-yl)-5-(1H-pyrazol-4-yl)furan-2-carboxamide;~~

~~I-116: N-(1-((1s,3s)-3-ethoxycyclobutyl)-3-(6-(trifluoromethyl)pyridin-2-yl)-1H-pyrazol-4-yl)-5-(1H-pyrazol-4-yl)furan-2-carboxamide;~~

~~I-117: 5-(1H-pyrazol-4-yl)-N-(3-(pyridin-2-yl)-1-(2,2,2-trifluoroethyl)-1H-pyrazol-4-yl)furan-2-carboxamide;~~

~~I-118: N-(1-(2-ethoxyethyl)-3-(thiazol-2-yl)-1H-pyrazol-4-yl)-5-(1H-pyrazol-4-yl)furan-2-carboxamide formate;~~

~~I-119: N-(1-(2-ethoxyethyl)-3-(thiazol-2-yl)-1H-pyrazol-4-yl)-5-(1H-pyrazol-4-yl)furan-2-carboxamide;~~

~~I-120: 5-(1H-pyrazol-4-yl)-N-(1-(tetrahydrofuran-3-yl)-3-(thiazol-2-yl)-1H-pyrazol-4-yl)furan-2-carboxamide formate;~~

~~I-121: 5-(1H-pyrazol-4-yl)-N-(1-(tetrahydrofuran-3-yl)-3-(thiazol-2-yl)-1H-pyrazol-4-yl)furan-2-carboxamide;~~

~~I-122: 5-(1-cyclobutyl-1H-pyrazol-4-yl)-N-(1-cyclobutyl-3-(pyridin-2-yl)-1H-pyrazol-4-yl)furan-2-carboxamide 2,2,2-trifluoroacetate;~~

~~I-123: 5-(1-cyclobutyl-1H-pyrazol-4-yl)-N-(1-cyclobutyl-3-(pyridin-2-yl)-1H-pyrazol-4-yl)furan-2-carboxamide;~~

~~I-124: N-(1-((1s,4s)-4-hydroxycyclohexyl)-3-(pyridin-2-yl)-1H-pyrazol-4-yl)-5-(1H-pyrazol-4-yl)furan-2-carboxamide formate;~~

~~I-125: N-(1-((1s,4s)-4-hydroxycyclohexyl)-3-(pyridin-2-yl)-1H-pyrazol-4-yl)-5-(1H-pyrazol-4-yl)furan-2-carboxamide;~~

~~I-126: N-(1-((1r,4r)-4-hydroxycyclohexyl)-3-(pyridin-2-yl)-1H-pyrazol-4-yl)-5-(1H-pyrazol-4-yl)furan-2-carboxamide formate;~~

~~I-127: N-(1-((1r,4r)-4-hydroxycyclohexyl)-3-(pyridin-2-yl)-1H-pyrazol-4-yl)-5-(1H-pyrazol-4-yl)furan-2-carboxamide;~~

~~I-128: 5-(1H-pyrazol-4-yl)-N-(3-(pyridin-2-yl)-1-(3-(2,2,2-trifluoroethoxy)cyclobutyl)-1H-pyrazol-4-yl)furan-2-carboxamide formate;~~

~~I-129: 5-(1H-pyrazol-4-yl)-N-(3-(pyridin-2-yl)-1-(3-(2,2,2-trifluoroethoxy)cyclobutyl)-1H-pyrazol-4-yl)furan-2-carboxamide;~~

I-130: N-(1-((1r,4r)-4-ethoxycyclohexyl)-3-(pyridin-2-yl)-1H-pyrazol-4-yl)-5-(1H-pyrazol-4-yl)furan-2-carboxamide formate;

I-131: N-(1-((1r,4r)-4-ethoxycyclohexyl)-3-(pyridin-2-yl)-1H-pyrazol-4-yl)-5-(1H-pyrazol-4-yl)furan-2-carboxamide;

I-132: N-(1-((1S,3R)-3-ethoxycyclopentyl)-3-(pyridin-2-yl)-1H-pyrazol-4-yl)-5-(1H-pyrazol-4-yl)furan-2-carboxamide formate;

I-133: N-(1-((1S,3R)-3-ethoxycyclopentyl)-3-(pyridin-2-yl)-1H-pyrazol-4-yl)-5-(1H-pyrazol-4-yl)furan-2-carboxamide;

I-134: N-(1-((1S,3R)-3-hydroxycyclopentyl)-3-(pyridin-2-yl)-1H-pyrazol-4-yl)-5-(1H-pyrazol-4-yl)furan-2-carboxamide formate;

I-135: N-(1-((1S,3R)-3-hydroxycyclopentyl)-3-(pyridin-2-yl)-1H-pyrazol-4-yl)-5-(1H-pyrazol-4-yl)furan-2-carboxamide;

I-136: N-(1-((1S,3S)-3-hydroxycyclopentyl)-3-(pyridin-2-yl)-1H-pyrazol-4-yl)-5-(1H-pyrazol-4-yl)furan-2-carboxamide formate;

I-137: N-(1-((1S,3S)-3-hydroxycyclopentyl)-3-(pyridin-2-yl)-1H-pyrazol-4-yl)-5-(1H-pyrazol-4-yl)furan-2-carboxamide;

I-138: N-(1-((1s,3s)-3-ethoxycyclobutyl)-3-(5-fluoropyridin-2-yl)-1H-pyrazol-4-yl)-5-(1H-pyrazol-4-yl)furan-2-carboxamide formate;

I-139: N-(1-((1s,3s)-3-ethoxycyclobutyl)-3-(5-fluoropyridin-2-yl)-1H-pyrazol-4-yl)-5-(1H-pyrazol-4-yl)furan-2-carboxamide;

I-140: N-(1-((1S,3R)-3-ethoxy-2-fluorocyclobutyl)-3-(pyridin-2-yl)-1H-pyrazol-4-yl)-5-(1H-pyrazol-4-yl)furan-2-carboxamide formate;

I-141: N-(1-((1S,3R)-3-ethoxy-2-fluorocyclobutyl)-3-(pyridin-2-yl)-1H-pyrazol-4-yl)-5-(1H-pyrazol-4-yl)furan-2-carboxamide;

I-142: N-(1-((1s,3s)-3-ethoxycyclobutyl)-3-(3-fluoropyridin-2-yl)-1H-pyrazol-4-yl)-5-(1H-pyrazol-4-yl)furan-2-carboxamide formate;

I-143: N-(1-((1s,3s)-3-ethoxycyclobutyl)-3-(3-fluoropyridin-2-yl)-1H-pyrazol-4-yl)-5-(1H-pyrazol-4-yl)furan-2-carboxamide;

I-144: N-(1-((1s,3s)-3-ethoxycyclobutyl)-3-(6-fluoropyridin-2-yl)-1H-pyrazol-4-yl)-5-(1H-pyrazol-4-yl)furan-2-carboxamide formate;

I-145: N-(1-((1s,3s)-3-ethoxycyclobutyl)-3-(6-fluoropyridin-2-yl)-1H-pyrazol-4-yl)-5-(1H-pyrazol-4-yl)furan-2-carboxamide;

I-146: 5-(1H-pyrazol-4-yl)-N-(3-(pyridin-2-yl)-1-((1s,3s)-3-(2,2,2-trifluoroethoxy)cyclobutyl)-1H-pyrazol-4-yl)furan-2-carboxamide formate;

I-147: 5-(1H-pyrazol-4-yl)-N-(3-(pyridin-2-yl)-1-((1s,3s)-3-(2,2,2-trifluoroethoxy)cyclobutyl)-1H-pyrazol-4-yl)furan-2-carboxamide;

I-148: N-(1-((1s,3s)-3-ethoxycyclobutyl)-3-(4-fluoropyridin-2-yl)-1H-pyrazol-4-yl)-5-(1H-pyrazol-4-yl)furan-2-carboxamide formate;

I-149: N-(1-((1s,3s)-3-ethoxycyclobutyl)-3-(4-fluoropyridin-2-yl)-1H-pyrazol-4-yl)-5-(1H-pyrazol-4-yl)furan-2-carboxamide;

I-150: N-(3-(6-fluoropyridin-2-yl)-1-((1s,3s)-3-(2,2,2-trifluoroethoxy)cyclobutyl)-1H-pyrazol-4-yl)-5-(1H-pyrazol-4-yl)furan-2-carboxamide formate;

I-151: N-(3-(6-fluoropyridin-2-yl)-1-((1s,3s)-3-(2,2,2-trifluoroethoxy)cyclobutyl)-1H-pyrazol-4-yl)-5-(1H-pyrazol-4-yl)furan-2-carboxamide;

I-152: N-(3-(3-fluoropyridin-2-yl)-1-((1s,3s)-3-(2,2,2-trifluoroethoxy)cyclobutyl)-1H-pyrazol-4-yl)-5-(1H-pyrazol-4-yl)furan-2-carboxamide formate;

I-153: N-(3-(3-fluoropyridin-2-yl)-1-((1s,3s)-3-(2,2,2-trifluoroethoxy)cyclobutyl)-1H-pyrazol-4-yl)-5-(1H-pyrazol-4-yl)furan-2-carboxamide;

I-154: N-(1-((1r,4r)-4-ethoxycyclohexyl)-3-(3-fluoropyridin-2-yl)-1H-pyrazol-4-yl)-5-(1H-pyrazol-4-yl)furan-2-carboxamide formate;

I-155: N-(1-((1r,4r)-4-ethoxycyclohexyl)-3-(3-fluoropyridin-2-yl)-1H-pyrazol-4-yl)-5-(1H-pyrazol-4-yl)furan-2-carboxamide; or

I-156: N-(3-(3,6-difluoropyridin-2-yl)-1-((1s,3s)-3-ethoxycyclobutyl)-1H-pyrazol-4-yl)-5-(1H-pyrazol-4-yl)furan-2-carboxamide.

62. A compound selected from

II-1: N-(1-(2-hydroxy-2-methylpropyl)-3-(pyridin-2-yl)-1H-pyrazol-4-yl)-2-(1H-pyrazol-4-yl)thiazole-4-carboxamide;

II-2: 1-(isobutyryloxy)ethyl 4-(4-((1-methyl-3-(pyridin-2-yl)-1H-pyrazol-4-yl)carbamoyl)thiazol-2-yl)-1H-pyrazole-1-carboxylate;

II-3: *tert*-butyl (R)-(3-methyl-1-(4-(4-((1-methyl-3-(pyridin-2-yl)-1H-pyrazol-4-yl)carbamoyl)thiazol-2-yl)-1H-pyrazol-1-yl)-1-oxobutan-2-yl)carbamate;

II-4: 2-(1-((5-methyl-2-oxo-1,3-dioxol-4-yl)methyl)-1H-pyrazol-4-yl)-N-(1-methyl-3-(pyridin-2-yl)-1H-pyrazol-4-yl)thiazole-4-carboxamide;

II-5: 1-methylcyclopropyl 4-(4-((1-methyl-3-(pyridin-2-yl)-1H-pyrazol-4-yl)carbamoyl)thiazol-2-yl)-1H-pyrazole-1-carboxylate;

II-6: 1-((4-methoxybenzyl)oxy)-2-methylpropan-2-yl 4-(4-((1-methyl-3-(pyridin-2-yl)-1H-pyrazol-4-yl)carbamoyl)thiazol-2-yl)-1H-pyrazole-1-carboxylate;

II-7: diethyl ((4-(4-((1-methyl-3-(pyridin-2-yl)-1H-pyrazol-4-yl)carbamoyl)thiazol-2-yl)-1H-pyrazol-1-yl)methyl)phosphonate;

II-8: sodium ((4-(4-((1-methyl-3-(pyridin-2-yl)-1H-pyrazol-4-yl)carbamoyl)thiazol-2-yl)-1H-pyrazol-1-yl)methyl)phosphonate;

II-9: ((4-(4-((1-methyl-3-(pyridin-2-yl)-1H-pyrazol-4-yl)carbamoyl)thiazol-2-yl)-1H-pyrazol-1-yl)methyl)phosphonic acid;

II-10: 2-(1H-pyrazol-4-yl)-N-(3-(pyridin-2-yl)-1-(tetrahydro-2H-pyran-4-yl)-1H-pyrazol-4-yl)thiazole-4-carboxamide;

II-11: N-(1-((1,3-cis)-3-ethoxycyclobutyl)-3-(pyridin-2-yl)-1H-pyrazol-4-yl)-2-(1H-pyrazol-4-yl)thiazole-4-carboxamide;

II-12: N-(1-((1,3-trans)-3-ethoxycyclobutyl)-3-(pyridin-2-yl)-1H-pyrazol-4-yl)-2-(1H-pyrazol-4-yl)thiazole-4-carboxamide;

II-13: N-(1-((1,3-cis)-3-ethoxycyclobutyl)-3-(pyridin-2-yl)-1H-pyrazol-4-yl)-2-(1-methyl-1H-pyrazol-4-yl)thiazole-4-carboxamide;

II-14: N-(1-((1,3-cis)-3-hydroxycyclobutyl)-3-(pyridin-2-yl)-1H-pyrazol-4-yl)-2-(1H-pyrazol-4-yl)thiazole-4-carboxamide;

II-15: N-(1-((1s,3s)-3-(dimethylamino)cyclobutyl)-3-(pyridin-2-yl)-1H-pyrazol-4-yl)-2-(1H-pyrazol-4-yl)thiazole-4-carboxamide;

II-16: (4-(4-((1-((1,3-cis)-3-ethoxycyclobutyl)-3-(pyridin-2-yl)-1H-pyrazol-4-yl)carbamoyl)thiazol-2-yl)-1H-pyrazol-1-yl)methyl phosphate bis-sodium salt;

II-17: (4-(4-((1-((1s,3s)-3-ethoxycyclobutyl)-3-(pyridin-2-yl)-1H-pyrazol-4-yl)carbamoyl)thiazol-2-yl)-1H-pyrazol-1-yl)methyl dihydrogen phosphate;

II-18: *N*-(1-(2-ethoxyethyl)-3-(pyridin-2-yl)-1*H*-pyrazol-4-yl)-2-(1*H*-pyrazol-4-yl)thiazole-4-carboxamide, formic acid salt;

II-19: N-(1-(2-ethoxyethyl)-3-(pyridin-2-yl)-1H-pyrazol-4-yl)-2-(5-(trifluoromethyl)-1H-pyrazol-4-yl)thiazole-4-carboxamide, formic acid salt;

II-20: N-(1-(2-ethoxyethyl)-3-(pyridin-2-yl)-1H-pyrazol-4-yl)-2-(5-(trifluoromethyl)-1H-pyrazol-4-yl)thiazole-4-carboxamide;

II-21: *N*-(1-(2-ethoxyethyl)-3-(pyridin-2-yl)-1*H*-pyrazol-4-yl)-2-(3-methyl-1*H*-pyrazol-4-yl)thiazole-4-carboxamide, formic acid salt;

II-22: *N*-(1-(2-ethoxyethyl)-3-(pyridin-2-yl)-1*H*-pyrazol-4-yl)-2-(3-methyl-1*H*-pyrazol-4-yl)thiazole-4-carboxamide;

II-23: 2-(3,5-dimethyl-1*H*-pyrazol-4-yl)-*N*-(1-(2-ethoxyethyl)-3-(pyridin-2-yl)-1*H*-pyrazol-4-yl)thiazole-4-carboxamide, formic acid salt;

II-24: 2-(3,5-dimethyl-1*H*-pyrazol-4-yl)-*N*-(1-(2-ethoxyethyl)-3-(pyridin-2-yl)-1*H*-pyrazol-4-yl)thiazole-4-carboxamide;

II-25: N-(1-(2-ethoxyethyl)-3-(pyridin-2-yl)-1H-pyrazol-4-yl)-2-(1H-pyrazol-4-yl)thiazole-4-carboxamide;

II-26: *N*-(1-methyl-3-(pyridin-2-yl)-1*H*-pyrazol-4-yl)-2-(1*H*-pyrazol-4-yl)thiazole-4-carboxamide;

II-27: 2-(3-methyl-1*H*-pyrazol-4-yl)-*N*-(1-methyl-3-(pyridin-2-yl)-1*H*-pyrazol-4-yl)thiazole-4-carboxamide;

II-28: *N*-(1-(2-methoxyethyl)-3-(pyridin-2-yl)-1*H*-pyrazol-4-yl)-2-(1*H*-pyrazol-4-yl)thiazole-4-carboxamide;

II-29: *N*-(1-(2-methoxyethyl)-3-(pyridin-2-yl)-1*H*-pyrazol-4-yl)-2-(3-methyl-1*H*-pyrazol-4-yl)thiazole-4-carboxamide, formic acid salt;

II-30: *N*-(1-(2-methoxyethyl)-3-(pyridin-2-yl)-1*H*-pyrazol-4-yl)-2-(3-methyl-1*H*-pyrazol-4-yl)thiazole-4-carboxamide;

II-31: N-(1-(2-ethoxyethyl)-3-(pyridin-2-yl)-1H-pyrazol-4-yl)-2-(3-methyl-1H-pyrazol-4-yl)thiazole-4-carboxamide;

II-32: 2-(1H-pyrazol-4-yl)-N-(3-(pyridin-2-yl)-1H-pyrazol-4-yl)thiazole-4-carboxamide formate;

II-33: 2-(1H-pyrazol-4-yl)-N-(3-(pyridin-2-yl)-1H-pyrazol-4-yl)thiazole-4-carboxamide;

II-34: *N*-(1-(oxetan-3-yl)-3-(pyridin-2-yl)-1*H*-pyrazol-4-yl)-2-(1*H*-pyrazol-4-yl)thiazole-4-carboxamide;

II-35: (4-(4-((1-methyl-3-(pyridin-2-yl)-1H-pyrazol-4-yl)carbamoyl)thiazol-2-yl)-1H-pyrazol-1-yl)methyl dihydrogen phosphate;

II-36: Sodium (4-(4-((1-methyl-3-(pyridin-2-yl)-1*H*-pyrazol-4-yl)carbamoyl)thiazol-2-yl)-1*H*-pyrazol-1-yl)methyl phosphate;

II-37: *N*-(1-(2-(2-methoxyethoxy)ethyl)-3-(pyridin-2-yl)-1*H*-pyrazol-4-yl)-2-(1*H*-pyrazol-4-yl)thiazole-4-carboxamide;

II-38: potassium (4-(4-((1-methyl-3-(pyridin-2-yl)-1H-pyrazol-4-yl)carbamoyl)thiazol-2-yl)-1H-pyrazol-1-yl)methyl phosphate;

II-39: N-(1-(2-(2-methoxyethoxy)ethyl)-3-(pyridin-2-yl)-1H-pyrazol-4-yl)-2-(3-methyl-1H-pyrazol-4-yl)thiazole-4-carboxamide formate;

II-40: N-(1-(2-(2-methoxyethoxy)ethyl)-3-(pyridin-2-yl)-1H-pyrazol-4-yl)-2-(3-methyl-1H-pyrazol-4-yl)thiazole-4-carboxamide;

II-41: 2-(3-methyl-1*H*-pyrazol-4-yl)-*N*-(1-(oxetan-3-yl)-3-(pyridin-2-yl)-1*H*-pyrazol-4-yl)thiazole-4-carboxamide, formic acid salt;

II-42: 2-(3-methyl-1*H*-pyrazol-4-yl)-*N*-(1-(oxetan-3-yl)-3-(pyridin-2-yl)-1*H*-pyrazol-4-yl)thiazole-4-carboxamide;

II-43: 2-(1H-pyrazol-4-yl)-N-(3-(pyridin-2-yl)-1-(tetrahydrofuran-3-yl)-1H-pyrazol-4-yl)thiazole-4-carboxamide formate;

II-44: 2-(1H-pyrazol-4-yl)-N-(3-(pyridin-2-yl)-1-(tetrahydrofuran-3-yl)-1H-pyrazol-4-yl)thiazole-4-carboxamide;

II-45: 2-(3-methyl-1H-pyrazol-4-yl)-N-(3-(pyridin-2-yl)-1-((tetrahydro-2H-pyran-4-yl)methyl)-1H-pyrazol-4-yl)thiazole-4-carboxamide formate;

II-46: 2-(3-methyl-1H-pyrazol-4-yl)-N-(3-(pyridin-2-yl)-1-((tetrahydro-2H-pyran-4-yl)methyl)-1H-pyrazol-4-yl)thiazole-4-carboxamide;

II-47: N-(1-((3-(hydroxymethyl)oxetan-3-yl)methyl)-3-(pyridin-2-yl)-1H-pyrazol-4-yl)-2-(3-methyl-1H-pyrazol-4-yl)thiazole-4-carboxamide formate;

II-48: N-(1-((3-(hydroxymethyl)oxetan-3-yl)methyl)-3-(pyridin-2-yl)-1H-pyrazol-4-yl)-2-(3-methyl-1H-pyrazol-4-yl)thiazole-4-carboxamide;

II-49: *N*-(1-(2-(diethylamino)ethyl)-3-(pyridin-2-yl)-1*H*-pyrazol-4-yl)-2-(1*H*-pyrazol-4-yl)thiazole-4-carboxamide, formic acid salt;

II-50: *N*-(1-(2-(diethylamino)ethyl)-3-(pyridin-2-yl)-1*H*-pyrazol-4-yl)-2-(1*H*-pyrazol-4-yl)thiazole-4-carboxamide;

II-51: 2-(1-(4-methoxybenzyl)-1H-pyrazol-4-yl)-N-(1-(3-methoxycyclobutyl)-3-(pyridin-2-yl)-1H-pyrazol-4-yl)thiazole-4-carboxamide;

II-52: N-(1-(2-fluoroethyl)-3-(pyridin-2-yl)-1H-pyrazol-4-yl)-2-(1-(4-methoxybenzyl)-1H-pyrazol-4-yl)thiazole-4-carboxamide;

II-53: 2-(1-(4-methoxybenzyl)-1H-pyrazol-4-yl)-N-(3-(pyridin-2-yl)-1H-pyrazol-4-yl)thiazole-4-carboxamide;

II-54: *tert*-Butyl 3-[4-{2-(1H-pyrazole-4-yl)thiazole-2-carboxamido}-3-(pyridine-2-yl)-1H-pyrazol-1-yl]azetidine-1-carboxylate, free base;

II-55: N-{1-(Azetidin-3-yl)-3-(pyridine-2-yl)-1H-pyrazol-4-yl}-2-(1H-pyrazol-4-yl)thiazole-4-carboxamide, TFA salt;

II-56: N-{1-(Azetidin-3-yl)-3-(pyridine-2-yl)-1H-pyrazol-4-yl}-2-(1H-pyrazol-4-yl)thiazole-4-carboxamide;

II-57: N-{1-(3-Methoxycyclobutyl)-3-(pyridine-2-yl)-1H-pyrazol-4-yl}-2-(1H-pyrazol-4-yl)thiazole-4-carboxamide, free base, Cis isomer;

II-58: N-(3-(5-methoxypyridin-2-yl)-1-methyl-1H-pyrazol-4-yl)-2-(1H-pyrazol-4-yl)thiazole-4-carboxamide;

II-59: N-(1-isopropyl-3-(pyridin-2-yl)-1H-pyrazol-4-yl)-2-(1H-pyrazol-4-yl)thiazole-4-carboxamide;

II-60: N-(1-(2-morpholinoethyl)-3-(pyridin-2-yl)-1H-pyrazol-4-yl)-2-(1H-pyrazol-4-yl)thiazole-4-carboxamide;

II-61: N-(1-(2-(4-methylpiperazin-1-yl)ethyl)-3-(pyridin-2-yl)-1H-pyrazol-4-yl)-2-(1H-pyrazol-4-yl)thiazole-4-carboxamide;

II-62: N-(1-((1s,3s)-3-ethoxycyclobutyl)-3-(trifluoromethyl)-1H-pyrazol-4-yl)-2-(1H-pyrazol-4-yl)thiazole-4-carboxamide;

II-63: N-(1-methyl-3-(trifluoromethyl)-1H-pyrazol-4-yl)-2-(1H-pyrazol-4-yl)thiazole-4-carboxamide 2,2,2-trifluoroacetate;

II-64: N-(1-methyl-3-(trifluoromethyl)-1H-pyrazol-4-yl)-2-(1H-pyrazol-4-yl)thiazole-4-carboxamide;

II-65: N-(3-(3-fluoropyridin-2-yl)-1-((1s,3s)-3-hydroxycyclobutyl)-1H-pyrazol-4-yl)-2-(1H-pyrazol-4-yl)thiazole-4-carboxamide;

II-66: 2-(1H-pyrazol-3-yl)-N-(3-(pyridin-2-yl)-1-(2-(2,2,2-trifluoroethoxy)ethyl)-1H-pyrazol-4-yl)thiazole-4-carboxamide;

II-67: (2-(1H-pyrazol-4-yl)thiazol-4-yl)(2-((1s,3s)-3-ethoxycyclobutyl)-2,5,6,7-tetrahydro-4H-pyrazolo[4,3-b]pyridin-4-yl)methanone;

II-68: (2-(1H-pyrazol-4-yl)thiazol-4-yl)(2-((1s,3s)-3-ethoxycyclobutyl)-2,5,6,7-tetrahydro-4H-pyrazolo[4,3-b]pyridin-4-yl)methanone 2,2,2-trifluoroacetate;

II-69: (2-(1H-pyrazol-4-yl)thiazol-4-yl)(1-(3-ethoxycyclobutyl)-1,5,6,7-tetrahydro-4H-pyrazolo[4,3-b]pyridin-4-yl)methanone 2,2,2-trifluoroacetate;

II-70: N-(3-carbamoyl-1-((1s,3s)-3-ethoxycyclobutyl)-1H-pyrazol-4-yl)-2-(1H-pyrazol-4-yl)thiazole-4-carboxamide;

II-71: N-(1-((1s,3s)-3-ethoxycyclobutyl)-3-(pyridin-2-yl)-1H-pyrazol-4-yl)-2-(5-fluoro-1-((2-(trimethylsilyl)ethoxy)methyl)-1H-pyrazol-4-yl)thiazole-4-carboxamide;

II-72: N-(1-((1s,3s)-3-ethoxycyclobutyl)-3-(pyridin-2-yl)-1H-pyrazol-4-yl)-2-(5-fluoro-1H-pyrazol-4-yl)thiazole-4-carboxamide;

II-73: N-(1-((1s,3s)-3-ethoxycyclobutyl)-3-(pyridin-2-yl)-1H-pyrazol-4-yl)-2-(5-fluoro-1H-pyrazol-4-yl)thiazole-4-carboxamide formate;

II-74: N-(1-((1s,3s)-3-ethoxycyclobutyl)-3-(1,3,4-oxadiazol-2-yl)-1H-pyrazol-4-yl)-2-(1H-pyrazol-4-yl)thiazole-4-carboxamide;

II-75: N-(3-(1,3,4-oxadiazol-2-yl)-1-(tetrahydro-2H-pyran-4-yl)-1H-pyrazol-4-yl)-2-(1H-pyrazol-4-yl)thiazole-4-carboxamide;

II-76: N-(1-((1s,3s)-3-isopropoxycyclobutyl)-3-(pyridin-2-yl)-1H-pyrazol-4-yl)-2-(1H-pyrazol-4-yl)thiazole-4-carboxamide;

II-77: potassium (4-(4-((1-((1s,3s)-3-ethoxycyclobutyl)-3-(pyridin-2-yl)-1H-pyrazol-4-yl)carbamoyl)thiazol-2-yl)-1H-pyrazol-1-yl)methyl phosphate;

II-78: calcium (4-(4-((1-((1s,3s)-3-ethoxycyclobutyl)-3-(pyridin-2-yl)-1H-pyrazol-4-yl)carbamoyl)thiazol-2-yl)-1H-pyrazol-1-yl)methyl phosphate;

II-79: N-(1-((1r,3r)-3-hydroxy-3-methylcyclobutyl)-3-(pyridin-2-yl)-1H-pyrazol-4-yl)-2-(1H-pyrazol-4-yl)thiazole-4-carboxamide;

II-80: ammonium (4-(4-((1-((1s,3s)-3-ethoxycyclobutyl)-3-(pyridin-2-yl)-1H-pyrazol-4-yl)carbamoyl)thiazol-2-yl)-1H-pyrazol-1-yl)methyl phosphate;

II-81: 5-amino-5-carboxypentan-1-aminium (4-(4-((1-((1s,3s)-3-ethoxycyclobutyl)-3-(pyridin-2-yl)-1H-pyrazol-4-yl)carbamoyl)thiazol-2-yl)-1H-pyrazol-1-yl)methyl phosphate;

II-82: 1-(4-amino-4-carboxybutyl)guanidinium (4-(4-((1-((1s,3s)-3-ethoxycyclobutyl)-3-(pyridin-2-yl)-1H-pyrazol-4-yl)carbamoyl)thiazol-2-yl)-1H-pyrazol-1-yl)methyl phosphate;

II-83: (4-(4-((1-((1s,3s)-3-ethoxycyclobutyl)-3-(pyridin-2-yl)-1H-pyrazol-4-yl)carbamoyl)thiazol-2-yl)-1H-pyrazol-1-yl)methyl dihydrogen phosphate;

II-84: 1,3-dihydroxy-2-(hydroxymethyl)propan-2-aminium (4-(4-((1-((1s,3s)-3-ethoxycyclobutyl)-3-(pyridin-2-yl)-1H-pyrazol-4-yl)carbamoyl)thiazol-2-yl)-1H-pyrazol-1-yl)methyl hydrogen phosphate;

II-85: triethylammonium (4-(4-((1-((1s,3s)-3-ethoxycyclobutyl)-3-(pyridin-2-yl)-1H-pyrazol-4-yl)carbamoyl)thiazol-2-yl)-1H-pyrazol-1-yl)methyl hydrogen phosphate;

II-86: N-(1-((1s,3s)-3-ethoxycyclobutyl)-3-(5-(trifluoromethyl)pyridin-2-yl)-1H-pyrazol-4-yl)-2-(1H-pyrazol-4-yl)thiazole-4-carboxamide;

II-87: N-(1-(3-hydroxy-3-methylcyclobutyl)-3-(pyridin-2-yl)-1H-pyrazol-4-yl)-2-(1H-pyrazol-4-yl)thiazole-4-carboxamide;

II-88: N-(1-(difluoromethyl)-3-(pyridin-2-yl)-1H-pyrazol-4-yl)-2-(1H-pyrazol-4-yl)thiazole-4-carboxamide;

II-89: N-(1-((1s,3s)-3-ethoxycyclobutyl)-3-(3-(trifluoromethyl)pyridin-2-yl)-1H-pyrazol-4-yl)-2-(1H-pyrazol-4-yl)thiazole-4-carboxamide;

II-90: N-(1-((1s,3s)-3-ethoxycyclobutyl)-3-(6-(trifluoromethyl)pyridin-2-yl)-1H-pyrazol-4-yl)-2-(1H-pyrazol-4-yl)thiazole-4-carboxamide;

II-91: N-(1-((1s,3s)-3-ethoxycyclobutyl)-3-(pyridin-2-yl)-1H-pyrazol-4-yl)-2-(3-(trifluoromethyl)-1H-pyrazol-4-yl)thiazole-4-carboxamide;

II-92: N-(1-((1s,3s)-3-ethoxycyclobutyl)-3-(pyridin-2-yl)-1H-pyrazol-4-yl)-2-(3-methyl-1H-pyrazol-4-yl)thiazole-4-carboxamide;

II-93: 2-(3,5-dimethyl-1H-pyrazol-4-yl)-N-(1-((1s,3s)-3-ethoxycyclobutyl)-3-(pyridin-2-yl)-1H-pyrazol-4-yl)thiazole-4-carboxamide;

II-94: 2-(1H-pyrazol-4-yl)-N-(3-(pyridin-2-yl)-1-(2,2,2-trifluoroethyl)-1H-pyrazol-4-yl)thiazole-4-carboxamide;

II-95: N-(1-(difluoromethyl)-3-(pyridin-2-yl)-1H-pyrazol-4-yl)-2-(3-(trifluoromethyl)-1H-pyrazol-4-yl)thiazole-4-carboxamide;

II-96: N-(1-(difluoromethyl)-3-(pyridin-2-yl)-1H-pyrazol-4-yl)-2-(3-methyl-1H-pyrazol-4-yl)thiazole-4-carboxamide;

II-97: N-(1-(difluoromethyl)-3-(pyridin-2-yl)-1H-pyrazol-4-yl)-2-(1-(2,2,2-trifluoroethyl)-1H-pyrazol-4-yl)thiazole-4-carboxamide;

II-98: 2-(1-(difluoromethyl)-1H-pyrazol-4-yl)-N-(1-(difluoromethyl)-3-(pyridin-2-yl)-1H-pyrazol-4-yl)thiazole-4-carboxamide;

II-99: N-(1-((1s,3s)-3-ethoxycyclobutyl)-3-(6-(trifluoromethyl)pyridin-2-yl)-1H-pyrazol-4-yl)-2-(3-methyl-1H-pyrazol-4-yl)thiazole-4-carboxamide;

II-100: 2-(3-methyl-1H-pyrazol-4-yl)-N-(3-(pyridin-2-yl)-1-(2,2,2-trifluoroethyl)-1H-pyrazol-4-yl)thiazole-4-carboxamide;

II-101: N-(1-((1s,3s)-3-hydroxycyclobutyl)-3-(pyrazin-2-yl)-1H-pyrazol-4-yl)-2-(1H-pyrazol-4-yl)thiazole-4-carboxamide;

II-102: N-(1-((1s,3s)-3-ethoxycyclobutyl)-3-(pyrimidin-2-yl)-1H-pyrazol-4-yl)-2-(1H-pyrazol-4-yl)thiazole-4-carboxamide;

II-103: 2-(1-(4-methoxybenzyl)-1H-pyrazol-4-yl)-N-(3-(pyridin-2-yl)-1-(3,3,3-trifluoro-2-hydroxypropyl)-1H-pyrazol-4-yl)thiazole-4-carboxamide formate;

II-104: 2-(1-(4-methoxybenzyl)-1H-pyrazol-4-yl)-N-(3-(pyridin-2-yl)-1-(3,3,3-trifluoro-2-hydroxypropyl)-1H-pyrazol-4-yl)thiazole-4-carboxamide;

II-105: N-(1-(dimethylcarbamoyl)-3-(pyridin-2-yl)-1H-pyrazol-4-yl)-2-(1-(4-methoxybenzyl)-1H-pyrazol-4-yl)thiazole-4-carboxamide formate;

II-106: N-(1-(dimethylcarbamoyl)-3-(pyridin-2-yl)-1H-pyrazol-4-yl)-2-(1-(4-methoxybenzyl)-1H-pyrazol-4-yl)thiazole-4-carboxamide;

II-107: 2-(1-(4-methoxybenzyl)-1H-pyrazol-4-yl)-N-(3-(pyridin-2-yl)-1-(3,3,3-trifluoro-2-hydroxy-2-(trifluoromethyl)propyl)-1H-pyrazol-4-yl)thiazole-4-carboxamide formate;

II-108: 2-(1-(4-methoxybenzyl)-1H-pyrazol-4-yl)-N-(3-(pyridin-2-yl)-1-(3,3,3-trifluoro-2-hydroxy-2-(trifluoromethyl)propyl)-1H-pyrazol-4-yl)thiazole-4-carboxamide;

II-109: N-(1-(2-ethoxyethyl)-3-(thiazol-2-yl)-1H-pyrazol-4-yl)-2-(1H-pyrazol-4-yl)thiazole-4-carboxamide formate;

II-110: N-(1-(2-ethoxyethyl)-3-(thiazol-2-yl)-1H-pyrazol-4-yl)-2-(1H-pyrazol-4-yl)thiazole-4-carboxamide;

II-111: 2-(1H-pyrazol-4-yl)-N-(1-(tetrahydro-2H-pyran-4-yl)-3-(thiazol-2-yl)-1H-pyrazol-4-yl)thiazole-4-carboxamide formate;

II-112: 2-(1H-pyrazol-4-yl)-N-(1-(tetrahydro-2H-pyran-4-yl)-3-(thiazol-2-yl)-1H-pyrazol-4-yl)thiazole-4-carboxamide;

II-113: N-(1-(2-(2-methoxyethoxy)ethyl)-3-(thiazol-2-yl)-1H-pyrazol-4-yl)-2-(1H-pyrazol-4-yl)thiazole-4-carboxamide formate;

II-114: N-(1-(2-(2-methoxyethoxy)ethyl)-3-(thiazol-2-yl)-1H-pyrazol-4-yl)-2-(1H-pyrazol-4-yl)thiazole-4-carboxamide;

II-115: 2-(1H-pyrazol-4-yl)-N-(1-(tetrahydrofuran-3-yl)-3-(thiazol-2-yl)-1H-pyrazol-4-yl)thiazole-4-carboxamide formate;

II-116: 2-(1H-pyrazol-4-yl)-N-(1-(tetrahydrofuran-3-yl)-3-(thiazol-2-yl)-1H-pyrazol-4-yl)thiazole-4-carboxamide;

II-117: N-(1-(2-(diethylamino)ethyl)-3-(pyridin-2-yl)-1H-pyrazol-4-yl)-2-(1H-pyrazol-4-yl)thiazole-4-carboxamide;

II-118: N-(1-(2-(2-fluoroethoxy)ethyl)-3-(pyridin-2-yl)-1H-pyrazol-4-yl)-2-(1H-pyrazol-4-yl)thiazole-4-carboxamide formate;

II-119: N-(1-(2-(2-fluoroethoxy)ethyl)-3-(pyridin-2-yl)-1H-pyrazol-4-yl)-2-(1H-pyrazol-4-yl)thiazole-4-carboxamide;

II-120: N-(1-benzyl-3-(pyridin-2-yl)-1H-pyrazol-4-yl)-2-(1H-pyrazol-4-yl)thiazole-4-carboxamide;

II-121: N-(1-cyclobutyl-3-(pyridin-2-yl)-1H-pyrazol-4-yl)-2-(1H-pyrazol-4-yl)thiazole-4-carboxamide;

II-122: N-(1-(2-(2,2-difluoroethoxy)ethyl)-3-(pyridin-2-yl)-1H-pyrazol-4-yl)-2-(1H-pyrazol-4-yl)thiazole-4-carboxamide;

II-123: N-(1-(((1r,3r)-3-hydroxycyclobutyl)methyl)-3-(pyridin-2-yl)-1H-pyrazol-4-yl)-2-(1H-pyrazol-4-yl)thiazole-4-carboxamide formate;

II-124: N-(1-(((1r,3r)-3-hydroxycyclobutyl)methyl)-3-(pyridin-2-yl)-1H-pyrazol-4-yl)-2-(1H-pyrazol-4-yl)thiazole-4-carboxamide;

II-125: N-(1-(dimethylcarbamoyl)-3-(pyridin-2-yl)-1H-pyrazol-4-yl)-2-(1H-pyrazol-4-yl)thiazole-4-carboxamide formate;

II-126: N-(1-(dimethylcarbamoyl)-3-(pyridin-2-yl)-1H-pyrazol-4-yl)-2-(1H-pyrazol-4-yl)thiazole-4-carboxamide;

II-127: N-(1-((1s,3s)-3-(ethoxy-d5)cyclobutyl)-3-(pyridin-2-yl)-1H-pyrazol-4-yl)-2-(1H-pyrazol-4-yl)thiazole-4-carboxamide;

II-128: N-(1-(diethylcarbamoyl)-3-(pyridin-2-yl)-1H-pyrazol-4-yl)-2-(1H-pyrazol-4-yl)thiazole-4-carboxamide;

II-129: N-(1-(morpholine-4-carbonyl)-3-(pyridin-2-yl)-1H-pyrazol-4-yl)-2-(1H-pyrazol-4-yl)thiazole-4-carboxamide;

II-130: N-(1-((1s,3s)-3-(2-fluoroethoxy)cyclobutyl)-3-(pyridin-2-yl)-1H-pyrazol-4-yl)-2-(1H-pyrazol-4-yl)thiazole-4-carboxamide;

II-131: N-(1-(morpholine-4-carbonyl)-3-(pyridin-2-yl)-1H-pyrazol-4-yl)-2-(1H-pyrazol-4-yl)thiazole-4-carboxamide formate;

II-132: N-(1-(3-fluorocyclobut-2-en-1-yl)-3-(pyridin-2-yl)-1H-pyrazol-4-yl)-2-(1H-pyrazol-4-yl)thiazole-4-carboxamide;

II-133: N-(1-(3-fluorocyclobut-2-en-1-yl)-3-(pyridin-2-yl)-1H-pyrazol-4-yl)-2-(1H-pyrazol-4-yl)thiazole-4-carboxamide formate;

II-134: N-(1-(3,3-difluorocyclobutyl)-3-(pyridin-2-yl)-1H-pyrazol-4-yl)-2-(1H-pyrazol-4-yl)thiazole-4-carboxamide formate;

II-135: N-(1-(3,3-difluorocyclobutyl)-3-(pyridin-2-yl)-1H-pyrazol-4-yl)-2-(1H-pyrazol-4-yl)thiazole-4-carboxamide;

II-136: N-(3-cyano-1-((1s,3s)-3-hydroxycyclobutyl)-1H-pyrazol-4-yl)-2-(1H-pyrazol-4-yl)thiazole-4-carboxamide;

II-137: N-(3-cyano-1-methyl-1H-pyrazol-4-yl)-2-(1H-pyrazol-4-yl)thiazole-4-carboxamide;

II-138: N-(3-cyano-1-((1s,3s)-3-ethoxycyclobutyl)-1H-pyrazol-4-yl)-2-(1H-pyrazol-4-yl)thiazole-4-carboxamide;

II-139: N-(3-cyano-1-((1s,3s)-3-ethoxycyclobutyl)-1H-pyrazol-4-yl)-2-(1H-pyrazol-4-yl)thiazole-4-carboxamide formate;

II-140: N-(3-(3-fluoropyridin-2-yl)-1-(1,4-dioxaspiro[4.5]decan-8-yl)-1H-pyrazol-4-yl)-2-(1H-pyrazol-4-yl)thiazole-4-carboxamide;

II-141: 2-(1H-pyrazol-4-yl)-N-(3-(pyridin-2-yl)-1-((1r,3r)-3-(2,2,2-trifluoroethoxy)cyclobutyl)-1H-pyrazol-4-yl)thiazole-4-carboxamide formate;

II-142: 2-(1H-pyrazol-4-yl)-N-(3-(pyridin-2-yl)-1-((1r,3r)-3-(2,2,2-trifluoroethoxy)cyclobutyl)-1H-pyrazol-4-yl)thiazole-4-carboxamide;

II-143: N-(1-((1r,4r)-4-hydroxycyclohexyl)-3-(pyridin-2-yl)-1H-pyrazol-4-yl)-2-(1H-pyrazol-4-yl)thiazole-4-carboxamide formate;

II-144: N-(1-((1r,4r)-4-hydroxycyclohexyl)-3-(pyridin-2-yl)-1H-pyrazol-4-yl)-2-(1H-pyrazol-4-yl)thiazole-4-carboxamide;

II-145: N-(1-((1r,4r)-4-ethoxycyclohexyl)-3-(pyridin-2-yl)-1H-pyrazol-4-yl)-2-(1H-pyrazol-4-yl)thiazole-4-carboxamide formate;

II-146: N-(1-((1r,4r)-4-ethoxycyclohexyl)-3-(pyridin-2-yl)-1H-pyrazol-4-yl)-2-(1H-pyrazol-4-yl)thiazole-4-carboxamide;

II-147: N-(1-((1S,3R)-3-ethoxycyclopentyl)-3-(pyridin-2-yl)-1H-pyrazol-4-yl)-2-(1H-pyrazol-4-yl)thiazole-4-carboxamide formate;

II-148: N-(1-((1S,3R)-3-ethoxycyclopentyl)-3-(pyridin-2-yl)-1H-pyrazol-4-yl)-2-(1H-pyrazol-4-yl)thiazole-4-carboxamide;

II-149: N-(1-((1S,3R)-3-hydroxycyclopentyl)-3-(pyridin-2-yl)-1H-pyrazol-4-yl)-2-(1H-pyrazol-4-yl)thiazole-4-carboxamide formate;

II-150: N-(1-((1S,3R)-3-hydroxycyclopentyl)-3-(pyridin-2-yl)-1H-pyrazol-4-yl)-2-(1H-pyrazol-4-yl)thiazole-4-carboxamide;

II-151: N-(1-((1S,3S)-3-hydroxycyclopentyl)-3-(pyridin-2-yl)-1H-pyrazol-4-yl)-2-(1H-pyrazol-4-yl)thiazole-4-carboxamide formate;

II-152: N-(1-((1S,3S)-3-hydroxycyclopentyl)-3-(pyridin-2-yl)-1H-pyrazol-4-yl)-2-(1H-pyrazol-4-yl)thiazole-4-carboxamide;

II-153: N-(1-((1s,3s)-3-ethoxycyclobutyl)-3-(5-fluoropyridin-2-yl)-1H-pyrazol-4-yl)-2-(1H-pyrazol-4-yl)thiazole-4-carboxamide formate;

II-154: N-(1-((1s,3s)-3-ethoxycyclobutyl)-3-(5-fluoropyridin-2-yl)-1H-pyrazol-4-yl)-2-(1H-pyrazol-4-yl)thiazole-4-carboxamide;

II-155: N-(1-((1S,3R)-3-ethoxy-2-fluorocyclobutyl)-3-(pyridin-2-yl)-1H-pyrazol-4-yl)-2-(1H-pyrazol-4-yl)thiazole-4-carboxamide formate;

II-156: N-(1-((1S,3R)-3-ethoxy-2-fluorocyclobutyl)-3-(pyridin-2-yl)-1H-pyrazol-4-yl)-2-(1H-pyrazol-4-yl)thiazole-4-carboxamide;

II-157: N-(1-((1s,3s)-3-ethoxycyclobutyl)-3-(3-fluoropyridin-2-yl)-1H-pyrazol-4-yl)-2-(1H-pyrazol-4-yl)thiazole-4-carboxamide;

II-158: N-(1-((1s,3s)-3-ethoxycyclobutyl)-3-(4-fluoropyridin-2-yl)-1H-pyrazol-4-yl)-2-(1H-pyrazol-4-yl)thiazole-4-carboxamide formate;

II-159: N-(1-((1s,3s)-3-ethoxycyclobutyl)-3-(4-fluoropyridin-2-yl)-1H-pyrazol-4-yl)-2-(1H-pyrazol-4-yl)thiazole-4-carboxamide;

II-160: N-(1-((1s,3s)-3-ethoxycyclobutyl)-3-(6-fluoropyridin-2-yl)-1H-pyrazol-4-yl)-2-(1H-pyrazol-4-yl)thiazole-4-carboxamide;

II-161: 2-(1H-pyrazol-4-yl)-N-(3-(pyridin-2-yl)-1-((1s,3s)-3-(2,2,2-trifluoroethoxy)cyclobutyl)-1H-pyrazol-4-yl)thiazole-4-carboxamide formate;

II-162: 2-(1H-pyrazol-4-yl)-N-(3-(pyridin-2-yl)-1-((1s,3s)-3-(2,2,2-trifluoroethoxy)cyclobutyl)-1H-pyrazol-4-yl)thiazole-4-carboxamide;

II-163: (4-(4-((1-((1s,3s)-3-ethoxycyclobutyl)-3-(3-fluoropyridin-2-yl)-1H-pyrazol-4-yl)carbamoyl)thiazol-2-yl)-1H-pyrazol-1-yl)methyl dihydrogen phosphate;\

II-164: sodium (4-(4-((1-((1s,3s)-3-ethoxycyclobutyl)-3-(3-fluoropyridin-2-yl)-1H-pyrazol-4-yl)carbamoyl)thiazol-2-yl)-1H-pyrazol-1-yl)methyl phosphate;

II-165: N-(3-(3-fluoropyridin-2-yl)-1-((1s,3s)-3-(2,2,2-trifluoroethoxy)cyclobutyl)-1H-pyrazol-4-yl)-2-(1H-pyrazol-4-yl)thiazole-4-carboxamide formate;

II-166: N-(3-(3-fluoropyridin-2-yl)-1-((1s,3s)-3-(2,2,2-trifluoroethoxy)cyclobutyl)-1H-pyrazol-4-yl)-2-(1H-pyrazol-4-yl)thiazole-4-carboxamide;

II-167: N-(3-(3-fluoropyridin-2-yl)-1-((1r,3r)-3-(2,2,2-trifluoroethoxy)cyclobutyl)-1H-pyrazol-4-yl)-2-(1H-pyrazol-4-yl)thiazole-4-carboxamide formate;

II-168: N-(3-(3-fluoropyridin-2-yl)-1-((1r,3r)-3-(2,2,2-trifluoroethoxy)cyclobutyl)-1H-pyrazol-4-yl)-2-(1H-pyrazol-4-yl)thiazole-4-carboxamide;

II-169: N-(1-((1r,4r)-4-ethoxycyclohexyl)-3-(3-fluoropyridin-2-yl)-1H-pyrazol-4-yl)-2-(1H-pyrazol-4-yl)thiazole-4-carboxamide;

II-170: N-(3-(6-fluoropyridin-2-yl)-1-((1s,3s)-3-(2,2,2-trifluoroethoxy)cyclobutyl)-1H-pyrazol-4-yl)-2-(1H-pyrazol-4-yl)thiazole-4-carboxamide formate;

II-171: N-(3-(6-fluoropyridin-2-yl)-1-((1s,3s)-3-(2,2,2-trifluoroethoxy)cyclobutyl)-1H-pyrazol-4-yl)-2-(1H-pyrazol-4-yl)thiazole-4-carboxamide;

II-172: N-(3-(6-fluoropyridin-2-yl)-1-((1s,3s)-3-hydroxycyclobutyl)-1H-pyrazol-4-yl)-2-(1H-pyrazol-4-yl)thiazole-4-carboxamide;

II-173: (4-(4-((1-((1s,3s)-3-ethoxycyclobutyl)-3-(6-fluoropyridin-2-yl)-1H-pyrazol-4-yl)carbamoyl)thiazol-2-yl)-1H-pyrazol-1-yl)methyl dihydrogen phosphate;

II-174: N-(3-(3,6-difluoropyridin-2-yl)-1-((1s,3s)-3-ethoxycyclobutyl)-1H-pyrazol-4-yl)-2-(1H-pyrazol-4-yl)thiazole-4-carboxamide;

II-175: N-(1-((1s,4s)-4-ethoxycyclohexyl)-3-(3-fluoropyridin-2-yl)-1H-pyrazol-4-yl)-2-(1H-pyrazol-4-yl)thiazole-4-carboxamide;

II-176: N-(3-(3,6-difluoropyridin-2-yl)-1-((1r,4r)-4-ethoxycyclohexyl)-1H-pyrazol-4-yl)-2-(1H-pyrazol-4-yl)thiazole-4-carboxamide;

II-177: N-(3-(3,6-difluoropyridin-2-yl)-1-((1s,4s)-4-ethoxycyclohexyl)-1H-pyrazol-4-yl)-2-(1H-pyrazol-4-yl)thiazole-4-carboxamide;

II-178: N-(1-((1r,4r)-4-ethoxycyclohexyl)-3-(1,3,4-oxadiazol-2-yl)-1H-pyrazol-4-yl)-2-(1H-pyrazol-4-yl)thiazole-4-carboxamide;

II-179: N-(1-((1r,4r)-4-((2,2-difluoroethyl)amino)cyclohexyl)-3-(pyrimidin-2-yl)-1H-pyrazol-4-yl)-2-(1H-pyrazol-4-yl)thiazole-4-carboxamide; or

II-180: N-(3-(3,5-difluoropyridin-2-yl)-1-((1r,4r)-4-ethoxycyclohexyl)-1H-pyrazol-4-yl)-2-(1H-pyrazol-4-yl)thiazole-4-carboxamide.

63. A compound selected from

III-1: 2-(1-(cyclopropylmethyl)-1H-pyrazol-4-yl)-N-(1-methyl-3-(pyridin-2-yl)-1H-pyrazol-4-yl)oxazole-4-carboxamide;

III-2: 2-(1*H*-pyrazol-4-yl)-*N*-(3-(pyridin-2-yl)-1-(tetrahydro-2*H*-pyran-4-yl)-1*H*-pyrazol-4-yl)oxazole-4-carboxamide;

III-3: N-(1-(2-ethoxyethyl)-3-(pyridin-2-yl)-1H-pyrazol-4-yl)-2-(1H-pyrazol-4-yl)oxazole-4-carboxamide;

III-4: N-(1-((1s,3s)-3-ethoxycyclobutyl)-3-(pyridin-2-yl)-1H-pyrazol-4-yl)-2-(1H-pyrazol-4-yl)oxazole-4-carboxamide;

III-5: N-(1-cyclobutyl-3-(pyridin-2-yl)-1H-pyrazol-4-yl)-2-(1H-pyrazol-4-yl)oxazole-4-carboxamide;

III-6: N-(1-(2-(2-methoxyethoxy)ethyl)-3-(pyridin-2-yl)-1H-pyrazol-4-yl)-2-(1H-pyrazol-4-yl)oxazole-4-carboxamide;

III-7: *N*-(1-(2-(2,2-difluoroethoxy)ethyl)-3-(pyridin-2-yl)-1*H*-pyrazol-4-yl)-2-(1*H*-pyrazol-4-yl)oxazole-4-carboxamide; or

III-8: N-(1-(2-(2,2-difluoroethoxy)ethyl)-3-(pyridin-2-yl)-1H-pyrazol-4-yl)-2-(1H-pyrazol-4-yl)oxazole-4-carboxamide.

64. A composition, comprising a compound of any one of claims 1-63, and a pharmaceutically acceptable excipient.

65. The composition of claim 64, further comprising an additional therapeutic agent.

66. A method, comprising administering to a subject in need thereof a therapeutically effective amount of a compound of any one of claims 1-63, or a composition of any one of claims 64-65.

67. The method of claim 66, wherein the method is a method for treating a disease or condition for which an IRAK inhibitor is indicated.

68. The method of claim 67, wherein the disease is an auto-immune disease, inflammatory disorder, cardiovascular disease, neurodegenerative disorder, allergic disorder, multi-organ failure, kidney disease, platelet aggregation, cancer, transplantation, sperm motility, erythrocyte deficiency, graft rejection, lung injury, respiratory disease, ischemic condition, bacterial infection, viral infection, immune regulatory disorder or a combination thereof.

69. The method of claim 67, wherein the disease is amyotrophic lateral sclerosis (ALS), systemic lupus erythematosus, chronic rheumatoid arthritis, type I diabetes mellitus, inflammatory bowel disease, biliary cirrhosis, uveitis, multiple sclerosis, Crohn's disease, ulcerative colitis, bullous pemphigoid, sarcoidosis, psoriasis, autoimmune myositis, pancreatitis, Kaposi's sarcoma, myelodysplastic syndrome, Wegener's granulomatosis, ichthyosis, Graves ophthalmopathy or asthma.

70. The method of claim 67, wherein the immune regulatory disorder is rheumatoid arthritis, systemic lupus erythematosus, Hashimoto's thyroiditis, multiple sclerosis, systemic sclerosis, myasthenia gravis, type I diabetes, uveitis, posterior uveitis, allergic encephalomyelitis, glomerulonephritis, postinfectious autoimmune diseases including rheumatic fever and post-infectious glomerulonephritis, inflammatory and hyperproliferative skin diseases, psoriasis, atopic dermatitis, contact dermatitis, eczematous dermatitis, seborrhoeic dermatitis, lichen planus, pemphigus, bullous pemphigoid, epidermolysis bullosa, urticaria, angioedemas, vasculitis, erythema, cutaneous eosinophilia, lupus erythematosus, acne, alopecia areata, keratoconjunctivitis, vernal conjunctivitis, uveitis associated with Behcet's disease, keratitis, herpetic keratitis, conical cornea, dystrophia epithelialis corneae, corneal leukoma, ocular pemphigus, Mooren's ulcer, scleritis, Graves' opthalmopathy, Vogt-Koyanagi-Harada syndrome, sarcoidosis, pollen allergies, reversible obstructive airway disease, bronchial asthma, allergic asthma, intrinsic asthma, extrinsic asthma, dust asthma, chronic or inveterate asthma, late asthma and airway hyper-responsiveness, bronchitis, gastric ulcers, vascular damage caused by ischemic diseases and thrombosis, ischemic bowel diseases, inflammatory bowel diseases, necrotizing enterocolitis, intestinal lesions associated with thermal burns, coeliac diseases, proctitis, eosinophilic gastroenteritis, mastocytosis, Crohn's disease, ulcerative colitis, migraine, rhinitis, eczema, interstitial nephritis, Goodpasture's syndrome, hemolytic-uremic syndrome, diabetic nephropathy, multiple myositis, Guillain-Barre syndrome, Meniere's disease, polyneuritis, multiple neuritis, mononeuritis, radiculopathy, hyperthyroidism, Basedow's disease, pure red cell aplasia, aplastic

anemia, hypoplastic anemia, idiopathic thrombocytopenic purpura, autoimmune hemolytic anemia, agranulocytosis, pernicious anemia, megaloblastic anemia, anerythroplasia, osteoporosis, sarcoidosis, fibroid lung, idiopathic interstitial pneumonia, dermatomyositis, leukoderma vulgaris, ichthyosis vulgaris, photoallergic sensitivity, cutaneous T cell lymphoma, chronic lymphocytic leukemia, arteriosclerosis, atherosclerosis, aortitis syndrome, polyarteritis nodosa, myocardosis, scleroderma, Wegener's granuloma, Sjogren's syndrome, adiposis, eosinophilic fasciitis, lesions of gingiva, periodontium, alveolar bone, substantia ossea dentis, glomerulonephritis, male pattern alopecia or alopecia senilis by preventing epilation or providing hair germination and/or promoting hair generation and hair growth, muscular dystrophy, pyoderma and Sezary's syndrome, Addison's disease, ischemia-reperfusion injury of organs which occurs upon preservation, transplantation or ischemic disease, endotoxin-shock, pseudomembranous colitis, colitis caused by drug or radiation, ischemic acute renal insufficiency, chronic renal insufficiency, toxinosis caused by lung-oxygen or drugs, lung cancer, pulmonary emphysema, cataracta, siderosis, retinitis pigmentosa, senile macular degeneration, vitreal scarring, corneal alkali burn, dermatitis erythema multiforme, linear IgA ballous dermatitis and cement dermatitis, gingivitis, periodontitis, sepsis, pancreatitis, diseases caused by environmental pollution, aging, carcinogenesis, metastasis of carcinoma and hypobaropathy, disease caused by histamine or leukotriene-C4 release, Behcet's disease, autoimmune hepatitis, primary biliary cirrhosis, sclerosing cholangitis, partial liver resection, acute liver necrosis, necrosis caused by toxin, viral hepatitis, shock, or anoxia, B-virus hepatitis, non-A/non-B hepatitis, cirrhosis, alcoholic cirrhosis, hepatic failure, fulminant hepatic failure, late-onset hepatic failure, "acute-on-chronic" liver failure, augmentation of chemotherapeutic effect, cytomegalovirus infection, HCMV infection, AIDS, cancer, senile dementia, Parkinson's disease, trauma, or chronic bacterial infection.

71. A method for inhibiting an IRAK protein, comprising contacting the IRAK protein with an effective amount of a compound of any one of claims 1-63.

72. The method of claim 71, wherein the compound has an EC_{50} of from greater than 0 to 5 μM.

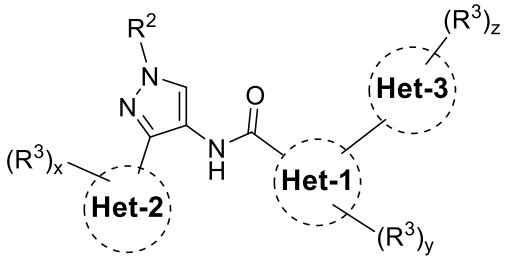
73. The method of claim 72, wherein the compound has an EC_{50} of from greater than 0 to 1 μM.

74. The method of any one of claims 71-73, wherein the IRAK protein is in a subject.

75. The method of any one of claims 71-73, wherein contacting the IRAK protein comprises contacting the IRAK protein *in vitro*.

Claims

1. A compound having a formula



or salt thereof, wherein:

R^2 is H, substituted or unsubstituted aliphatic, substituted or unsubstituted heteroaliphatic, substituted or unsubstituted heterocycloaliphatic, substituted or unsubstituted aryl, amide, substituted or unsubstituted heterocyclyl or substituted or unsubstituted araliphatic;

each R^3 independently is H, substituted or unsubstituted aliphatic, halogen, substituted or unsubstituted heteroaliphatic, substituted or unsubstituted -O-aliphatic, substituted or unsubstituted heterocyclyl, substituted or unsubstituted aryl, substituted or unsubstituted araliphatic, substituted or unsubstituted –O-heterocyclyl, hydroxyl, nitro, cyano, carboxyl, carboxyl ester, acyl, amide, amino, sulfonyl, sulfonamide, sulfanyl, sulfinyl, haloalkyl, alkylphosphate, or alkylphosphonate, wherein R^3 is not pyridinyl;

x is from 1 to 6;

y is from 1 to 6;

z is from 1 to 6;

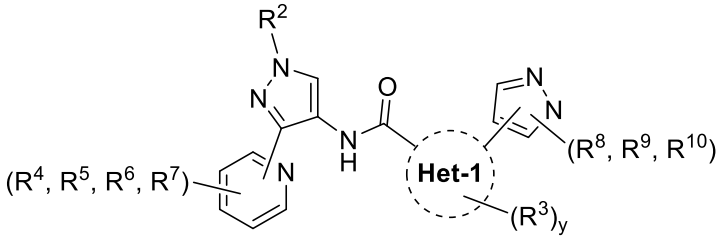
Het-1 is furyl, thiazolyl or oxazolyl;

Het-2 is 5- or 6- membered heteroaryl; and

Het-3 is pyrazolyl.

2. The compound of claim 1, wherein Het-2 is pyridinyl, pyrimidinyl, pyrazinyl, oxadiazolyl, or thiazolyl.

3. The compound of claim 1 or claim 2, wherein the compound has a formula



wherein:

R^4, R^5, R^6 and R^7 are each independently H, substituted or unsubstituted aliphatic, halogen,

haloalkyl, substituted or unsubstituted heteroaliphatic, alkoxy, substituted or unsubstituted heterocyclyl, or substituted or unsubstituted –O-heterocyclyl;

R^8 and R^9 are each independently H , halogen, haloalkyl, or substituted or unsubstituted alkyl; and

R^{10} is H, substituted or unsubstituted aliphatic, substituted or unsubstituted -O-aliphatic, substituted or unsubstituted heteroaliphatic, carboxyl ester, substituted or unsubstituted aryl, acyl, substituted or unsubstituted araliphatic, substituted or unsubstituted heterocyclyl, sulfonyl, amino, NO_2, CN, OH, haloalkyl, alkyl phosphate or alkylphosphonate.

4. The compound of claim 3, wherein:

R^2 is R^a, R^b, R^a substituted with 1, 2 or 3 R^b, R^a substituted with R^b and R^c, R^a substituted with R^c, $–(CR^aR^a)_n$-R^a, -$(CH_2)_n$-R^a, -$(CR^aR^a)_n$-R^b or -$(CH_2)_n$-R^b;

each of R^4, R^5, R^6, and R^7 independently is R^a, R^b, R^a substituted with R^c, -OR^a, -O-$(CR^aR^a)_p$-R^b;

R^{10} is R^a, R^b, R^a substituted with –$OP(O)(R^f)_2$, R^a substituted with 1, 2 or 3 R^b, R^a substituted with R^c, R^a substituted with –$P(O)(R^f)_2$, aralkyl, -$(CR^aR^a)_n$-R^a, -$(CH_2)_n$-R^a or -$C(O)C(R^a)_2NR^aR^b$

n is 1, 2 or 3;

p is 1, 2, or 3;

R^a is independently for each occurrence H, D, $C_{1\text{-}6}$alkyl, $C_{3\text{-}6}$cycloalkyl, $C_{3\text{-}6}$cycloalkenyl or $C_{3\text{-}6}$heteroalicyclyl;

R^b is independently for each occurrence -OH, -CF_3, -OR^c, -NR^dR^d, -C(O)OH, -$C(O)R^c$, -$C(O)OR^c$, -$C(O)NR^dR^d$ or halogen;

R^c is independently for each occurrence $C_{1\text{-}6}$alkyl, $C_{3\text{-}6}$cycloalkyl, $C_{3\text{-}6}$heteroalicyclyl, aralkyl, $C_{1\text{-}6}$alkyl substituted with 1, 2 or 3 R^e, $C_{3\text{-}6}$cycloalkyl substituted with 1, 2 or 3 R^e, or $C_{3\text{-}6}$heteroalicyclyl substituted with 1, 2 or 3 R^e;

R^d is independently for each occurrence H, $C_{1\text{-}6}$alkyl, $C_{1\text{-}6}$alkyl substituted with 1, 2 or 3 R^e, $C_{3\text{-}6}$cycloalkyl, $C_{3\text{-}6}$cycloalkyl optionally substituted with 1, 2 or 3 R^e, or two R^d groups together with the nitrogen bound thereto form a $C_{3\text{-}6}$heteroalicyclyl moiety optionally substituted with $C_{1\text{-}6}$alkyl;

R^e is independently for each occurrence halogen, $C_{1\text{-}6}$alkyl, $C_{3\text{-}6}$cycloalkyl, $C_{3\text{-}6}$heteroalicyclyl, $C_{1\text{-}6}$alkyl-OH, -OR^a, -$OC(O)R^a$ or -O-aralkyl;

R^f is independently for each occurrence -OR^a, -O^-M^+ or –$O^-[M^{2+}]_{0.5}$;

each M^+ independently is an alkali metal ion or an ammonium ion; and

M^{2+} is an alkaline metal earth ion.

5. The compound of any one of claims 3-4, wherein:

R^5 is H, F, CF_3, methoxy, morpholin-4-yl, 1-methylpiperidin-4-yl, -O-$CH_2C(CH_3)_2OH$, or –O-(oxetan-3-yl);

each of R^4, R^6 and R^7 independently is H, F or CF_3; or

a combination thereof.

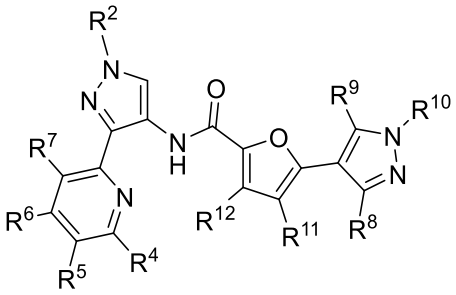
6. The compound of claim 5, wherein:

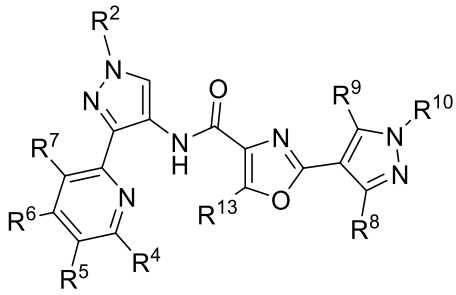
R^3 is H;

R^2 is H, substituted or unsubstituted alkyl, haloalkyl, substituted or unsubstituted cycloaliphatic, substituted or unsubstituted heteroaliphatic, or substituted or unsubstituted heterocycloaliphatic;

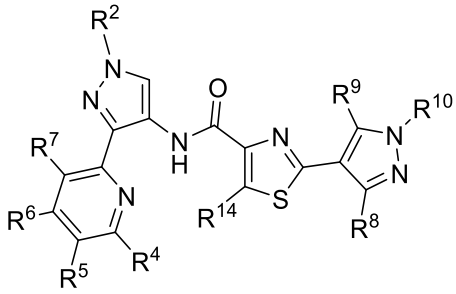
R^{10} is H, substituted or unsubstituted alkyl, carboxyl ester, acyl, alkyl phosphate, alkyl phosphonate or substituted or unsubstituted aralkyl.

7. The compound of any one of claims 3-6, wherein the compound has a formula selected from



, 

, or



; and

each of R^{11}, R^{12}, R^{13}, and R^{14} independently is H or substituted or unsubstituted alkyl.

8. The compound of any one of claims 1-7, wherein R^2 comprises cyclobutyl, azetidinyl, morpholinyl, 4-methylpiperazinyl, oxetanyl, tetrahydrofuranyl, tetrahydropyranyl, or a combination thereof.

9. The compound any one of claims 1-8, wherein R^2 is H, methyl, difluoromethyl, trifluoroethyl, isopropyl, tetrahydropyranyl, tetrahydrofuranyl, oxetanyl, N-*tert*-butyloxycarbonyl azetidin-3-yl, 3-methyoxy cyclobutyl, 3-benzyloxycyclobutyl, 3-ethyloxy cyclobutyl, 3-isopropyl cyclobutyl, 3-hydroxy cyclobutyl, 4-ethoxy cyclohexyl, 4-hydroxy cyclohexyl, 4-((2,2-difluoroethyl)amino)cyclohexyl, 3-ethyloxy cyclopentyl, or 3-hydroxy cyclopentyl.

10. The compound of claim 1, or a salt thereof, wherein the compound is selected from:

II-1: N-(1-(2-hydroxy-2-methylpropyl)-3-(pyridin-2-yl)-1H-pyrazol-4-yl)-2-(1H-pyrazol-4-yl)thiazole-4-carboxamide;

II-2: 1-(isobutyryloxy)ethyl 4-(4-((1-methyl-3-(pyridin-2-yl)-1H-pyrazol-4-yl)carbamoyl)thiazol-2-yl)-1H-pyrazole-1-carboxylate;

II-3: *tert*-butyl (R)-(3-methyl-1-(4-(4-((1-methyl-3-(pyridin-2-yl)-1H-pyrazol-4-yl)carbamoyl)thiazol-2-yl)-1H-pyrazol-1-yl)-1-oxobutan-2-yl)carbamate;

II-4: 2-(1-((5-methyl-2-oxo-1,3-dioxol-4-yl)methyl)-1H-pyrazol-4-yl)-N-(1-methyl-3-(pyridin-2-yl)-1H-pyrazol-4-yl)thiazole-4-carboxamide;

II-5: 1-methylcyclopropyl 4-(4-((1-methyl-3-(pyridin-2-yl)-1H-pyrazol-4-yl)carbamoyl)thiazol-2-yl)-1H-pyrazole-1-carboxylate;

II-6: 1-((4-methoxybenzyl)oxy)-2-methylpropan-2-yl 4-(4-((1-methyl-3-(pyridin-2-yl)-1H-pyrazol-4-yl)carbamoyl)thiazol-2-yl)-1H-pyrazole-1-carboxylate;

II-7: diethyl ((4-(4-((1-methyl-3-(pyridin-2-yl)-1H-pyrazol-4-yl)carbamoyl)thiazol-2-yl)-1H-pyrazol-1-yl)methyl)phosphonate;

II-8: sodium ((4-(4-((1-methyl-3-(pyridin-2-yl)-1H-pyrazol-4-yl)carbamoyl)thiazol-2-yl)-1H-pyrazol-1-yl)methyl)phosphonate;

II-9: ((4-(4-((1-methyl-3-(pyridin-2-yl)-1H-pyrazol-4-yl)carbamoyl)thiazol-2-yl)-1H-pyrazol-1-yl)methyl)phosphonic acid;

II-10: 2-(1H-pyrazol-4-yl)-N-(3-(pyridin-2-yl)-1-(tetrahydro-2H-pyran-4-yl)-1H-pyrazol-4-yl)thiazole-4-carboxamide;

II-11: N-(1-((1,3-cis)-3-ethoxycyclobutyl)-3-(pyridin-2-yl)-1H-pyrazol-4-yl)-2-(1H-pyrazol-4-yl)thiazole-4-carboxamide;

II-12: N-(1-((1,3-trans)-3-ethoxycyclobutyl)-3-(pyridin-2-yl)-1H-pyrazol-4-yl)-2-(1H-pyrazol-4-yl)thiazole-4-carboxamide;

II-13: N-(1-((1,3-cis)-3-ethoxycyclobutyl)-3-(pyridin-2-yl)-1H-pyrazol-4-yl)-2-(1-methyl-1H-pyrazol-4-yl)thiazole-4-carboxamide;

II-14: N-(1-((1,3-cis)-3-hydroxycyclobutyl)-3-(pyridin-2-yl)-1H-pyrazol-4-yl)-2-(1H-pyrazol-4-yl)thiazole-4-carboxamide;

II-15: N-(1-((1s,3s)-3-(dimethylamino)cyclobutyl)-3-(pyridin-2-yl)-1H-pyrazol-4-yl)-2-(1H-pyrazol-4-yl)thiazole-4-carboxamide;

II-16: (4-(4-((1-((1,3-cis)-3-ethoxycyclobutyl)-3-(pyridin-2-yl)-1H-pyrazol-4-yl)carbamoyl)thiazol-2-yl)-1H-pyrazol-1-yl)methyl phosphate bis-sodium salt;

II-17: (4-(4-((1-((1s,3s)-3-ethoxycyclobutyl)-3-(pyridin-2-yl)-1H-pyrazol-4-yl)carbamoyl)thiazol-2-yl)-1H-pyrazol-1-yl)methyl dihydrogen phosphate;

II-18: *N*-(1-(2-ethoxyethyl)-3-(pyridin-2-yl)-1*H*-pyrazol-4-yl)-2-(1*H*-pyrazol-4-yl)thiazole-4-

carboxamide, formic acid salt;

II-19: N-(1-(2-ethoxyethyl)-3-(pyridin-2-yl)-1H-pyrazol-4-yl)-2-(5-(trifluoromethyl)-1H-pyrazol-4-yl)thiazole-4-carboxamide, formic acid salt;

II-20: N-(1-(2-ethoxyethyl)-3-(pyridin-2-yl)-1H-pyrazol-4-yl)-2-(5-(trifluoromethyl)-1H-pyrazol-4-yl)thiazole-4-carboxamide;

II-21: *N*-(1-(2-ethoxyethyl)-3-(pyridin-2-yl)-1*H*-pyrazol-4-yl)-2-(3-methyl-1*H*-pyrazol-4-yl)thiazole-4-carboxamide, formic acid salt;

II-22: *N*-(1-(2-ethoxyethyl)-3-(pyridin-2-yl)-1*H*-pyrazol-4-yl)-2-(3-methyl-1*H*-pyrazol-4-yl)thiazole-4-carboxamide;

II-23: 2-(3,5-dimethyl-1*H*-pyrazol-4-yl)-*N*-(1-(2-ethoxyethyl)-3-(pyridin-2-yl)-1*H*-pyrazol-4-yl)thiazole-4-carboxamide, formic acid salt;

II-24: 2-(3,5-dimethyl-1*H*-pyrazol-4-yl)-*N*-(1-(2-ethoxyethyl)-3-(pyridin-2-yl)-1*H*-pyrazol-4-yl)thiazole-4-carboxamide;

II-25: N-(1-(2-ethoxyethyl)-3-(pyridin-2-yl)-1H-pyrazol-4-yl)-2-(1H-pyrazol-4-yl)thiazole-4-carboxamide;

II-26: *N*-(1-methyl-3-(pyridin-2-yl)-1*H*-pyrazol-4-yl)-2-(1*H*-pyrazol-4-yl)thiazole-4-carboxamide;

II-27: 2-(3-methyl-1*H*-pyrazol-4-yl)-*N*-(1-methyl-3-(pyridin-2-yl)-1*H*-pyrazol-4-yl)thiazole-4-carboxamide;

II-28: *N*-(1-(2-methoxyethyl)-3-(pyridin-2-yl)-1*H*-pyrazol-4-yl)-2-(1*H*-pyrazol-4-yl)thiazole-4-carboxamide;

II-29: *N*-(1-(2-methoxyethyl)-3-(pyridin-2-yl)-1*H*-pyrazol-4-yl)-2-(3-methyl-1*H*-pyrazol-4-yl)thiazole-4-carboxamide, formic acid salt;

II-30: *N*-(1-(2-methoxyethyl)-3-(pyridin-2-yl)-1*H*-pyrazol-4-yl)-2-(3-methyl-1*H*-pyrazol-4-yl)thiazole-4-carboxamide;

II-31: N-(1-(2-ethoxyethyl)-3-(pyridin-2-yl)-1H-pyrazol-4-yl)-2-(3-methyl-1H-pyrazol-4-yl)thiazole-4-carboxamide;

II-32: 2-(1H-pyrazol-4-yl)-N-(3-(pyridin-2-yl)-1H-pyrazol-4-yl)thiazole-4-carboxamide formate;

II-33: 2-(1H-pyrazol-4-yl)-N-(3-(pyridin-2-yl)-1H-pyrazol-4-yl)thiazole-4-carboxamide;

II-34: *N*-(1-(oxetan-3-yl)-3-(pyridin-2-yl)-1*H*-pyrazol-4-yl)-2-(1*H*-pyrazol-4-yl)thiazole-4-carboxamide;

II-35: (4-(4-((1-methyl-3-(pyridin-2-yl)-1H-pyrazol-4-yl)carbamoyl)thiazol-2-yl)-1H-pyrazol-1-yl)methyl dihydrogen phosphate;

II-36: Sodium (4-(4-((1-methyl-3-(pyridin-2-yl)-1*H*-pyrazol-4-yl)carbamoyl)thiazol-2-yl)-1*H*-pyrazol-1-yl)methyl phosphate;

II-37: *N*-(1-(2-(2-methoxyethoxy)ethyl)-3-(pyridin-2-yl)-1*H*-pyrazol-4-yl)-2-(1*H*-pyrazol-4-

yl)thiazole-4-carboxamide;

II-38: potassium (4-(4-((1-methyl-3-(pyridin-2-yl)-1H-pyrazol-4-yl)carbamoyl)thiazol-2-yl)-1H-pyrazol-1-yl)methyl phosphate;

II-39: N-(1-(2-(2-methoxyethoxy)ethyl)-3-(pyridin-2-yl)-1H-pyrazol-4-yl)-2-(3-methyl-1H-pyrazol-4-yl)thiazole-4-carboxamide formate;

II-40: N-(1-(2-(2-methoxyethoxy)ethyl)-3-(pyridin-2-yl)-1H-pyrazol-4-yl)-2-(3-methyl-1H-pyrazol-4-yl)thiazole-4-carboxamide;

II-41: 2-(3-methyl-1*H*-pyrazol-4-yl)-*N*-(1-(oxetan-3-yl)-3-(pyridin-2-yl)-1*H*-pyrazol-4-yl)thiazole-4-carboxamide, formic acid salt;

II-42: 2-(3-methyl-1*H*-pyrazol-4-yl)-*N*-(1-(oxetan-3-yl)-3-(pyridin-2-yl)-1*H*-pyrazol-4-yl)thiazole-4-carboxamide;

II-43: 2-(1H-pyrazol-4-yl)-N-(3-(pyridin-2-yl)-1-(tetrahydrofuran-3-yl)-1H-pyrazol-4-yl)thiazole-4-carboxamide formate;

II-44: 2-(1H-pyrazol-4-yl)-N-(3-(pyridin-2-yl)-1-(tetrahydrofuran-3-yl)-1H-pyrazol-4-yl)thiazole-4-carboxamide;

II-45: 2-(3-methyl-1H-pyrazol-4-yl)-N-(3-(pyridin-2-yl)-1-((tetrahydro-2H-pyran-4-yl)methyl)-1H-pyrazol-4-yl)thiazole-4-carboxamide formate;

II-46: 2-(3-methyl-1H-pyrazol-4-yl)-N-(3-(pyridin-2-yl)-1-((tetrahydro-2H-pyran-4-yl)methyl)-1H-pyrazol-4-yl)thiazole-4-carboxamide;

II-47: N-(1-((3-(hydroxymethyl)oxetan-3-yl)methyl)-3-(pyridin-2-yl)-1H-pyrazol-4-yl)-2-(3-methyl-1H-pyrazol-4-yl)thiazole-4-carboxamide formate;

II-48: N-(1-((3-(hydroxymethyl)oxetan-3-yl)methyl)-3-(pyridin-2-yl)-1H-pyrazol-4-yl)-2-(3-methyl-1H-pyrazol-4-yl)thiazole-4-carboxamide;

II-49: *N*-(1-(2-(diethylamino)ethyl)-3-(pyridin-2-yl)-1*H*-pyrazol-4-yl)-2-(1*H*-pyrazol-4-yl)thiazole-4-carboxamide, formic acid salt;

II-50: *N*-(1-(2-(diethylamino)ethyl)-3-(pyridin-2-yl)-1*H*-pyrazol-4-yl)-2-(1*H*-pyrazol-4-yl)thiazole-4-carboxamide;

II-51: 2-(1-(4-methoxybenzyl)-1H-pyrazol-4-yl)-N-(1-(3-methoxycyclobutyl)-3-(pyridin-2-yl)-1H-pyrazol-4-yl)thiazole-4-carboxamide;

II-52: N-(1-(2-fluoroethyl)-3-(pyridin-2-yl)-1H-pyrazol-4-yl)-2-(1-(4-methoxybenzyl)-1H-pyrazol-4-yl)thiazole-4-carboxamide;

II-53: 2-(1-(4-methoxybenzyl)-1H-pyrazol-4-yl)-N-(3-(pyridin-2-yl)-1H-pyrazol-4-yl)thiazole-4-carboxamide;

II-54: *tert*-Butyl-3-[4-{2-(1H-pyrazole-4-yl)thiazole-2-carboxamido}-3-(pyridine-2-yl)-1H-pyrazol-1-yl]azetidine-1-carboxylate, free base;

II-55: N-{1-(Azetidin-3-yl)-3-(pyridine-2-yl)-1H-pyrazol-4-yl}-2-(1H-pyrazol-4-yl)thiazole-4-carboxamide, TFA salt;

II-56: N-{1-(Azetidin-3-yl)-3-(pyridine-2-yl)-1H-pyrazol-4-yl}-2-(1H-pyrazol-4-yl)thiazole-4-carboxamide;

II-57: N-{1-(3-Methoxycyclobutyl)-3-(pyridine-2-yl)-1H-pyrazol-4-yl}-2-(1H-pyrazol-4-yl)thiazole-4-carboxamide, free base, Cis isomer;

II-58: N-(3-(5-methoxypyridin-2-yl)-1-methyl-1H-pyrazol-4-yl)-2-(1H-pyrazol-4-yl)thiazole-4-carboxamide;

II-59: N-(1-isopropyl-3-(pyridin-2-yl)-1H-pyrazol-4-yl)-2-(1H-pyrazol-4-yl)thiazole-4-carboxamide;

II-60: N-(1-(2-morpholinoethyl)-3-(pyridin-2-yl)-1H-pyrazol-4-yl)-2-(1H-pyrazol-4-yl)thiazole-4-carboxamide;

II-61: N-(1-(2-(4-methylpiperazin-1-yl)ethyl)-3-(pyridin-2-yl)-1H-pyrazol-4-yl)-2-(1H-pyrazol-4-yl)thiazole-4-carboxamide;

II-65: N-(3-(3-fluoropyridin-2-yl)-1-((1s,3s)-3-hydroxycyclobutyl)-1H-pyrazol-4-yl)-2-(1H-pyrazol-4-yl)thiazole-4-carboxamide;

II-66: 2-(1H-pyrazol-3-yl)-N-(3-(pyridin-2-yl)-1-(2-(2,2,2-trifluoroethoxy)ethyl)-1H-pyrazol-4-yl)thiazole-4-carboxamide;

II-71: N-(1-((1s,3s)-3-ethoxycyclobutyl)-3-(pyridin-2-yl)-1H-pyrazol-4-yl)-2-(5-fluoro-1-((2-(trimethylsilyl)ethoxy)methyl)-1H-pyrazol-4-yl)thiazole-4-carboxamide;

II-72: N-(1-((1s,3s)-3-ethoxycyclobutyl)-3-(pyridin-2-yl)-1H-pyrazol-4-yl)-2-(5-fluoro-1H-pyrazol-4-yl)thiazole-4-carboxamide;

II-73: N-(1-((1s,3s)-3-ethoxycyclobutyl)-3-(pyridin-2-yl)-1H-pyrazol-4-yl)-2-(5-fluoro-1H-pyrazol-4-yl)thiazole-4-carboxamide formate;

II-74: N-(1-((1s,3s)-3-ethoxycyclobutyl)-3-(1,3,4-oxadiazol-2-yl)-1H-pyrazol-4-yl)-2-(1H-pyrazol-4-yl)thiazole-4-carboxamide;

II-75: N-(3-(1,3,4-oxadiazol-2-yl)-1-(tetrahydro-2H-pyran-4-yl)-1H-pyrazol-4-yl)-2-(1H-pyrazol-4-yl)thiazole-4-carboxamide;

II-76: N-(1-((1s,3s)-3-isopropoxycyclobutyl)-3-(pyridin-2-yl)-1H-pyrazol-4-yl)-2-(1H-pyrazol-4-yl)thiazole-4-carboxamide;

II-77: potassium (4-(4-((1-((1s,3s)-3-ethoxycyclobutyl)-3-(pyridin-2-yl)-1H-pyrazol-4-yl)carbamoyl)thiazol-2-yl)-1H-pyrazol-1-yl)methyl phosphate;

II-78: calcium (4-(4-((1-((1s,3s)-3-ethoxycyclobutyl)-3-(pyridin-2-yl)-1H-pyrazol-4-yl)carbamoyl)thiazol-2-yl)-1H-pyrazol-1-yl)methyl phosphate;

II-79: N-(1-((1r,3r)-3-hydroxy-3-methylcyclobutyl)-3-(pyridin-2-yl)-1H-pyrazol-4-yl)-2-(1H-pyrazol-4-yl)thiazole-4-carboxamide;

II-80: ammonium (4-(4-((1-((1s,3s)-3-ethoxycyclobutyl)-3-(pyridin-2-yl)-1H-pyrazol-4-yl)carbamoyl)thiazol-2-yl)-1H-pyrazol-1-yl)methyl phosphate;

II-81: 5-amino-5-carboxypentan-1-aminium (4-(4-((1-((1s,3s)-3-ethoxycyclobutyl)-3-(pyridin-

2-yl)-1H-pyrazol-4-yl)carbamoyl)thiazol-2-yl)-1H-pyrazol-1-yl)methyl phosphate;

II-82: 1-(4-amino-4-carboxybutyl)guanidinium (4-(4-((1-((1s,3s)-3-ethoxycyclobutyl)-3-(pyridin-2-yl)-1H-pyrazol-4-yl)carbamoyl)thiazol-2-yl)-1H-pyrazol-1-yl)methyl phosphate;

II-83: (4-(4-((1-((1s,3s)-3-ethoxycyclobutyl)-3-(pyridin-2-yl)-1H-pyrazol-4-yl)carbamoyl)thiazol-2-yl)-1H-pyrazol-1-yl)methyl dihydrogen phosphate;

II-84: 1,3-dihydroxy-2-(hydroxymethyl)propan-2-aminium (4-(4-((1-((1s,3s)-3-ethoxycyclobutyl)-3-(pyridin-2-yl)-1H-pyrazol-4-yl)carbamoyl)thiazol-2-yl)-1H-pyrazol-1-yl)methyl hydrogen phosphate;

II-85: triethylammonium (4-(4-((1-((1s,3s)-3-ethoxycyclobutyl)-3-(pyridin-2-yl)-1H-pyrazol-4-yl)carbamoyl)thiazol-2-yl)-1H-pyrazol-1-yl)methyl hydrogen phosphate;

II-86: N-(1-((1s,3s)-3-ethoxycyclobutyl)-3-(5-(trifluoromethyl)pyridin-2-yl)-1H-pyrazol-4-yl)-2-(1H-pyrazol-4-yl)thiazole-4-carboxamide;

II-87: N-(1-(3-hydroxy-3-methylcyclobutyl)-3-(pyridin-2-yl)-1H-pyrazol-4-yl)-2-(1H-pyrazol-4-yl)thiazole-4-carboxamide;

II-88: N-(1-(difluoromethyl)-3-(pyridin-2-yl)-1H-pyrazol-4-yl)-2-(1H-pyrazol-4-yl)thiazole-4-carboxamide;

II-89: N-(1-((1s,3s)-3-ethoxycyclobutyl)-3-(3-(trifluoromethyl)pyridin-2-yl)-1H-pyrazol-4-yl)-2-(1H-pyrazol-4-yl)thiazole-4-carboxamide;

II-90: N-(1-((1s,3s)-3-ethoxycyclobutyl)-3-(6-(trifluoromethyl)pyridin-2-yl)-1H-pyrazol-4-yl)-2-(1H-pyrazol-4-yl)thiazole-4-carboxamide;

II-91: N-(1-((1s,3s)-3-ethoxycyclobutyl)-3-(pyridin-2-yl)-1H-pyrazol-4-yl)-2-(3-(trifluoromethyl)-1H-pyrazol-4-yl)thiazole-4-carboxamide;

II-92: N-(1-((1s,3s)-3-ethoxycyclobutyl)-3-(pyridin-2-yl)-1H-pyrazol-4-yl)-2-(3-methyl-1H-pyrazol-4-yl)thiazole-4-carboxamide;

II-93: 2-(3,5-dimethyl-1H-pyrazol-4-yl)-N-(1-((1s,3s)-3-ethoxycyclobutyl)-3-(pyridin-2-yl)-1H-pyrazol-4-yl)thiazole-4-carboxamide;

II-94: 2-(1H-pyrazol-4-yl)-N-(3-(pyridin-2-yl)-1-(2,2,2-trifluoroethyl)-1H-pyrazol-4-yl)thiazole-4-carboxamide;

II-95: N-(1-(difluoromethyl)-3-(pyridin-2-yl)-1H-pyrazol-4-yl)-2-(3-(trifluoromethyl)-1H-pyrazol-4-yl)thiazole-4-carboxamide;

II-96: N-(1-(difluoromethyl)-3-(pyridin-2-yl)-1H-pyrazol-4-yl)-2-(3-methyl-1H-pyrazol-4-yl)thiazole-4-carboxamide;

II-97: N-(1-(difluoromethyl)-3-(pyridin-2-yl)-1H-pyrazol-4-yl)-2-(1-(2,2,2-trifluoroethyl)-1H-pyrazol-4-yl)thiazole-4-carboxamide;

II-98: 2-(1-(difluoromethyl)-1H-pyrazol-4-yl)-N-(1-(difluoromethyl)-3-(pyridin-2-yl)-1H-pyrazol-4-yl)thiazole-4-carboxamide;

II-99: N-(1-((1s,3s)-3-ethoxycyclobutyl)-3-(6-(trifluoromethyl)pyridin-2-yl)-1H-pyrazol-4-yl)-

2-(3-methyl-1H-pyrazol-4-yl)thiazole-4-carboxamide;

II-100: 2-(3-methyl-1H-pyrazol-4-yl)-N-(3-(pyridin-2-yl)-1-(2,2,2-trifluoroethyl)-1H-pyrazol-4-yl)thiazole-4-carboxamide;

II-101: N-(1-((1s,3s)-3-hydroxycyclobutyl)-3-(pyrazin-2-yl)-1H-pyrazol-4-yl)-2-(1H-pyrazol-4-yl)thiazole-4-carboxamide;

II-102: N-(1-((1s,3s)-3-ethoxycyclobutyl)-3-(pyrimidin-2-yl)-1H-pyrazol-4-yl)-2-(1H-pyrazol-4-yl)thiazole-4-carboxamide;

II-103: 2-(1-(4-methoxybenzyl)-1H-pyrazol-4-yl)-N-(3-(pyridin-2-yl)-1-(3,3,3-trifluoro-2-hydroxypropyl)-1H-pyrazol-4-yl)thiazole-4-carboxamide formate;

II-104: 2-(1-(4-methoxybenzyl)-1H-pyrazol-4-yl)-N-(3-(pyridin-2-yl)-1-(3,3,3-trifluoro-2-hydroxypropyl)-1H-pyrazol-4-yl)thiazole-4-carboxamide;

II-105: N-(1-(dimethylcarbamoyl)-3-(pyridin-2-yl)-1H-pyrazol-4-yl)-2-(1-(4-methoxybenzyl)-1H-pyrazol-4-yl)thiazole-4-carboxamide formate;

II-106: N-(1-(dimethylcarbamoyl)-3-(pyridin-2-yl)-1H-pyrazol-4-yl)-2-(1-(4-methoxybenzyl)-1H-pyrazol-4-yl)thiazole-4-carboxamide;

II-107: 2-(1-(4-methoxybenzyl)-1H-pyrazol-4-yl)-N-(3-(pyridin-2-yl)-1-(3,3,3-trifluoro-2-hydroxy-2-(trifluoromethyl)propyl)-1H-pyrazol-4-yl)thiazole-4-carboxamide formate;

II-108: 2-(1-(4-methoxybenzyl)-1H-pyrazol-4-yl)-N-(3-(pyridin-2-yl)-1-(3,3,3-trifluoro-2-hydroxy-2-(trifluoromethyl)propyl)-1H-pyrazol-4-yl)thiazole-4-carboxamide;

II-109: N-(1-(2-ethoxyethyl)-3-(thiazol-2-yl)-1H-pyrazol-4-yl)-2-(1H-pyrazol-4-yl)thiazole-4-carboxamide formate;

II-110: N-(1-(2-ethoxyethyl)-3-(thiazol-2-yl)-1H-pyrazol-4-yl)-2-(1H-pyrazol-4-yl)thiazole-4-carboxamide;

II-111: 2-(1H-pyrazol-4-yl)-N-(1-(tetrahydro-2H-pyran-4-yl)-3-(thiazol-2-yl)-1H-pyrazol-4-yl)thiazole-4-carboxamide formate;

II-112: 2-(1H-pyrazol-4-yl)-N-(1-(tetrahydro-2H-pyran-4-yl)-3-(thiazol-2-yl)-1H-pyrazol-4-yl)thiazole-4-carboxamide;

II-113: N-(1-(2-(2-methoxyethoxy)ethyl)-3-(thiazol-2-yl)-1H-pyrazol-4-yl)-2-(1H-pyrazol-4-yl)thiazole-4-carboxamide formate;

II-114: N-(1-(2-(2-methoxyethoxy)ethyl)-3-(thiazol-2-yl)-1H-pyrazol-4-yl)-2-(1H-pyrazol-4-yl)thiazole-4-carboxamide;

II-115: 2-(1H-pyrazol-4-yl)-N-(1-(tetrahydrofuran-3-yl)-3-(thiazol-2-yl)-1H-pyrazol-4-yl)thiazole-4-carboxamide formate;

II-116: 2-(1H-pyrazol-4-yl)-N-(1-(tetrahydrofuran-3-yl)-3-(thiazol-2-yl)-1H-pyrazol-4-yl)thiazole-4-carboxamide;

II-117: N-(1-(2-(diethylamino)ethyl)-3-(pyridin-2-yl)-1H-pyrazol-4-yl)-2-(1H-pyrazol-4-yl)thiazole-4-carboxamide;

II-118: N-(1-(2-(2-fluoroethoxy)ethyl)-3-(pyridin-2-yl)-1H-pyrazol-4-yl)-2-(1H-pyrazol-4-yl)thiazole-4-carboxamide formate;

II-119: N-(1-(2-(2-fluoroethoxy)ethyl)-3-(pyridin-2-yl)-1H-pyrazol-4-yl)-2-(1H-pyrazol-4-yl)thiazole-4-carboxamide;

II-120: N-(1-benzyl-3-(pyridin-2-yl)-1H-pyrazol-4-yl)-2-(1H-pyrazol-4-yl)thiazole-4-carboxamide;

II-121: N-(1-cyclobutyl-3-(pyridin-2-yl)-1H-pyrazol-4-yl)-2-(1H-pyrazol-4-yl)thiazole-4-carboxamide;

II-122: N-(1-(2-(2,2-difluoroethoxy)ethyl)-3-(pyridin-2-yl)-1H-pyrazol-4-yl)-2-(1H-pyrazol-4-yl)thiazole-4-carboxamide;

II-123: N-(1-(((1r,3r)-3-hydroxycyclobutyl)methyl)-3-(pyridin-2-yl)-1H-pyrazol-4-yl)-2-(1H-pyrazol-4-yl)thiazole-4-carboxamide formate;

II-124: N-(1-(((1r,3r)-3-hydroxycyclobutyl)methyl)-3-(pyridin-2-yl)-1H-pyrazol-4-yl)-2-(1H-pyrazol-4-yl)thiazole-4-carboxamide;

II-125: N-(1-(dimethylcarbamoyl)-3-(pyridin-2-yl)-1H-pyrazol-4-yl)-2-(1H-pyrazol-4-yl)thiazole-4-carboxamide formate;

II-126: N-(1-(dimethylcarbamoyl)-3-(pyridin-2-yl)-1H-pyrazol-4-yl)-2-(1H-pyrazol-4-yl)thiazole-4-carboxamide;

II-127: N-(1-((1s,3s)-3-(ethoxy-d5)cyclobutyl)-3-(pyridin-2-yl)-1H-pyrazol-4-yl)-2-(1H-pyrazol-4-yl)thiazole-4-carboxamide;

II-128: N-(1-(diethylcarbamoyl)-3-(pyridin-2-yl)-1H-pyrazol-4-yl)-2-(1H-pyrazol-4-yl)thiazole-4-carboxamide;

II-129: N-(1-(morpholine-4-carbonyl)-3-(pyridin-2-yl)-1H-pyrazol-4-yl)-2-(1H-pyrazol-4-yl)thiazole-4-carboxamide;

II-130: N-(1-((1s,3s)-3-(2-fluoroethoxy)cyclobutyl)-3-(pyridin-2-yl)-1H-pyrazol-4-yl)-2-(1H-pyrazol-4-yl)thiazole-4-carboxamide;

II-131: N-(1-(morpholine-4-carbonyl)-3-(pyridin-2-yl)-1H-pyrazol-4-yl)-2-(1H-pyrazol-4-yl)thiazole-4-carboxamide formate;

II-132: N-(1-(3-fluorocyclobut-2-en-1-yl)-3-(pyridin-2-yl)-1H-pyrazol-4-yl)-2-(1H-pyrazol-4-yl)thiazole-4-carboxamide;

II-133: N-(1-(3-fluorocyclobut-2-en-1-yl)-3-(pyridin-2-yl)-1H-pyrazol-4-yl)-2-(1H-pyrazol-4-yl)thiazole-4-carboxamide formate;

II-134: N-(1-(3,3-difluorocyclobutyl)-3-(pyridin-2-yl)-1H-pyrazol-4-yl)-2-(1H-pyrazol-4-yl)thiazole-4-carboxamide formate;

II-135: N-(1-(3,3-difluorocyclobutyl)-3-(pyridin-2-yl)-1H-pyrazol-4-yl)-2-(1H-pyrazol-4-yl)thiazole-4-carboxamide;

II-140: N-(3-(3-fluoropyridin-2-yl)-1-(1,4-dioxaspiro[4.5]decan-8-yl)-1H-pyrazol-4-yl)-2-(1H-

pyrazol-4-yl)thiazole-4-carboxamide;

II-141: 2-(1H-pyrazol-4-yl)-N-(3-(pyridin-2-yl)-1-((1r,3r)-3-(2,2,2-trifluoroethoxy)cyclobutyl)-1H-pyrazol-4-yl)thiazole-4-carboxamide formate;

II-142: 2-(1H-pyrazol-4-yl)-N-(3-(pyridin-2-yl)-1-((1r,3r)-3-(2,2,2-trifluoroethoxy)cyclobutyl)-1H-pyrazol-4-yl)thiazole-4-carboxamide;

II-143: N-(1-((1r,4r)-4-hydroxycyclohexyl)-3-(pyridin-2-yl)-1H-pyrazol-4-yl)-2-(1H-pyrazol-4-yl)thiazole-4-carboxamide formate;

II-144: N-(1-((1r,4r)-4-hydroxycyclohexyl)-3-(pyridin-2-yl)-1H-pyrazol-4-yl)-2-(1H-pyrazol-4-yl)thiazole-4-carboxamide;

II-145: N-(1-((1r,4r)-4-ethoxycyclohexyl)-3-(pyridin-2-yl)-1H-pyrazol-4-yl)-2-(1H-pyrazol-4-yl)thiazole-4-carboxamide formate;

II-146: N-(1-((1r,4r)-4-ethoxycyclohexyl)-3-(pyridin-2-yl)-1H-pyrazol-4-yl)-2-(1H-pyrazol-4-yl)thiazole-4-carboxamide;

II-147: N-(1-((1S,3R)-3-ethoxycyclopentyl)-3-(pyridin-2-yl)-1H-pyrazol-4-yl)-2-(1H-pyrazol-4-yl)thiazole-4-carboxamide formate;

II-148: N-(1-((1S,3R)-3-ethoxycyclopentyl)-3-(pyridin-2-yl)-1H-pyrazol-4-yl)-2-(1H-pyrazol-4-yl)thiazole-4-carboxamide;

II-149: N-(1-((1S,3R)-3-hydroxycyclopentyl)-3-(pyridin-2-yl)-1H-pyrazol-4-yl)-2-(1H-pyrazol-4-yl)thiazole-4-carboxamide formate;

II-150: N-(1-((1S,3R)-3-hydroxycyclopentyl)-3-(pyridin-2-yl)-1H-pyrazol-4-yl)-2-(1H-pyrazol-4-yl)thiazole-4-carboxamide;

II-151: N-(1-((1S,3S)-3-hydroxycyclopentyl)-3-(pyridin-2-yl)-1H-pyrazol-4-yl)-2-(1H-pyrazol-4-yl)thiazole-4-carboxamide formate;

II-152: N-(1-((1S,3S)-3-hydroxycyclopentyl)-3-(pyridin-2-yl)-1H-pyrazol-4-yl)-2-(1H-pyrazol-4-yl)thiazole-4-carboxamide;

II-153: N-(1-((1s,3s)-3-ethoxycyclobutyl)-3-(5-fluoropyridin-2-yl)-1H-pyrazol-4-yl)-2-(1H-pyrazol-4-yl)thiazole-4-carboxamide formate;

II-154: N-(1-((1s,3s)-3-ethoxycyclobutyl)-3-(5-fluoropyridin-2-yl)-1H-pyrazol-4-yl)-2-(1H-pyrazol-4-yl)thiazole-4-carboxamide;

II-155: N-(1-((1S,3R)-3-ethoxy-2-fluorocyclobutyl)-3-(pyridin-2-yl)-1H-pyrazol-4-yl)-2-(1H-pyrazol-4-yl)thiazole-4-carboxamide formate;

II-156: N-(1-((1S,3R)-3-ethoxy-2-fluorocyclobutyl)-3-(pyridin-2-yl)-1H-pyrazol-4-yl)-2-(1H-pyrazol-4-yl)thiazole-4-carboxamide;

II-157: N-(1-((1s,3s)-3-ethoxycyclobutyl)-3-(3-fluoropyridin-2-yl)-1H-pyrazol-4-yl)-2-(1H-pyrazol-4-yl)thiazole-4-carboxamide;

II-158: N-(1-((1s,3s)-3-ethoxycyclobutyl)-3-(4-fluoropyridin-2-yl)-1H-pyrazol-4-yl)-2-(1H-pyrazol-4-yl)thiazole-4-carboxamide formate;

II-159: N-(1-((1s,3s)-3-ethoxycyclobutyl)-3-(4-fluoropyridin-2-yl)-1H-pyrazol-4-yl)-2-(1H-pyrazol-4-yl)thiazole-4-carboxamide;

II-160: N-(1-((1s,3s)-3-ethoxycyclobutyl)-3-(6-fluoropyridin-2-yl)-1H-pyrazol-4-yl)-2-(1H-pyrazol-4-yl)thiazole-4-carboxamide;

II-161: 2-(1H-pyrazol-4-yl)-N-(3-(pyridin-2-yl)-1-((1s,3s)-3-(2,2,2-trifluoroethoxy)cyclobutyl)-1H-pyrazol-4-yl)thiazole-4-carboxamide formate;

II-162: 2-(1H-pyrazol-4-yl)-N-(3-(pyridin-2-yl)-1-((1s,3s)-3-(2,2,2-trifluoroethoxy)cyclobutyl)-1H-pyrazol-4-yl)thiazole-4-carboxamide;

II-163: (4-(4-((1-((1s,3s)-3-ethoxycyclobutyl)-3-(3-fluoropyridin-2-yl)-1H-pyrazol-4-yl)carbamoyl)thiazol-2-yl)-1H-pyrazol-1-yl)methyl dihydrogen phosphate;¥

II-164: sodium (4-(4-((1-((1s,3s)-3-ethoxycyclobutyl)-3-(3-fluoropyridin-2-yl)-1H-pyrazol-4-yl)carbamoyl)thiazol-2-yl)-1H-pyrazol-1-yl)methyl phosphate;

II-165: N-(3-(3-fluoropyridin-2-yl)-1-((1s,3s)-3-(2,2,2-trifluoroethoxy)cyclobutyl)-1H-pyrazol-4-yl)-2-(1H-pyrazol-4-yl)thiazole-4-carboxamide formate;

II-166: N-(3-(3-fluoropyridin-2-yl)-1-((1s,3s)-3-(2,2,2-trifluoroethoxy)cyclobutyl)-1H-pyrazol-4-yl)-2-(1H-pyrazol-4-yl)thiazole-4-carboxamide;

II-167: N-(3-(3-fluoropyridin-2-yl)-1-((1r,3r)-3-(2,2,2-trifluoroethoxy)cyclobutyl)-1H-pyrazol-4-yl)-2-(1H-pyrazol-4-yl)thiazole-4-carboxamide formate;

II-168: N-(3-(3-fluoropyridin-2-yl)-1-((1r,3r)-3-(2,2,2-trifluoroethoxy)cyclobutyl)-1H-pyrazol-4-yl)-2-(1H-pyrazol-4-yl)thiazole-4-carboxamide;

II-169: N-(1-((1r,4r)-4-ethoxycyclohexyl)-3-(3-fluoropyridin-2-yl)-1H-pyrazol-4-yl)-2-(1H-pyrazol-4-yl)thiazole-4-carboxamide;

II-170: N-(3-(6-fluoropyridin-2-yl)-1-((1s,3s)-3-(2,2,2-trifluoroethoxy)cyclobutyl)-1H-pyrazol-4-yl)-2-(1H-pyrazol-4-yl)thiazole-4-carboxamide formate;

II-171: N-(3-(6-fluoropyridin-2-yl)-1-((1s,3s)-3-(2,2,2-trifluoroethoxy)cyclobutyl)-1H-pyrazol-4-yl)-2-(1H-pyrazol-4-yl)thiazole-4-carboxamide;

II-172: N-(3-(6-fluoropyridin-2-yl)-1-((1s,3s)-3-hydroxycyclobutyl)-1H-pyrazol-4-yl)-2-(1H-pyrazol-4-yl)thiazole-4-carboxamide;

II-173: (4-(4-((1-((1s,3s)-3-ethoxycyclobutyl)-3-(6-fluoropyridin-2-yl)-1H-pyrazol-4-yl)carbamoyl)thiazol-2-yl)-1H-pyrazol-1-yl)methyl dihydrogen phosphate;

II-174: N-(3-(3,6-difluoropyridin-2-yl)-1-((1s,3s)-3-ethoxycyclobutyl)-1H-pyrazol-4-yl)-2-(1H-pyrazol-4-yl)thiazole-4-carboxamide;

II-175: N-(1-((1s,4s)-4-ethoxycyclohexyl)-3-(3-fluoropyridin-2-yl)-1H-pyrazol-4-yl)-2-(1H-pyrazol-4-yl)thiazole-4-carboxamide;

II-176: N-(3-(3,6-difluoropyridin-2-yl)-1-((1r,4r)-4-ethoxycyclohexyl)-1H-pyrazol-4-yl)-2-(1H-pyrazol-4-yl)thiazole-4-carboxamide;

II-177: N-(3-(3,6-difluoropyridin-2-yl)-1-((1s,4s)-4-ethoxycyclohexyl)-1H-pyrazol-4-yl)-2-

(1H-pyrazol-4-yl)thiazole-4-carboxamide;

II-178: N-(1-((1r,4r)-4-ethoxycyclohexyl)-3-(1,3,4-oxadiazol-2-yl)-1H-pyrazol-4-yl)-2-(1H-pyrazol-4-yl)thiazole-4-carboxamide;

II-179: N-(1-((1r,4r)-4-((2,2-difluoroethyl)amino)cyclohexyl)-3-(pyrimidin-2-yl)-1H-pyrazol-4-yl)-2-(1H-pyrazol-4-yl)thiazole-4-carboxamide;

II-180: N-(3-(3,5-difluoropyridin-2-yl)-1-((1r,4r)-4-ethoxycyclohexyl)-1H-pyrazol-4-yl)-2-(1H-pyrazol-4-yl)thiazole-4-carboxamide;

III-1: 2-(1-(cyclopropylmethyl)-1H-pyrazol-4-yl)-N-(1-methyl-3-(pyridin-2-yl)-1H-pyrazol-4-yl)oxazole-4-carboxamide;

III-2: 2-(1*H*-pyrazol-4-yl)-*N*-(3-(pyridin-2-yl)-1-(tetrahydro-2*H*-pyran-4-yl)-1*H*-pyrazol-4-yl)oxazole-4-carboxamide;

III-3: N-(1-(2-ethoxyethyl)-3-(pyridin-2-yl)-1H-pyrazol-4-yl)-2-(1H-pyrazol-4-yl)oxazole-4-carboxamide;

III-4: N-(1-((1s,3s)-3-ethoxycyclobutyl)-3-(pyridin-2-yl)-1H-pyrazol-4-yl)-2-(1H-pyrazol-4-yl)oxazole-4-carboxamide;

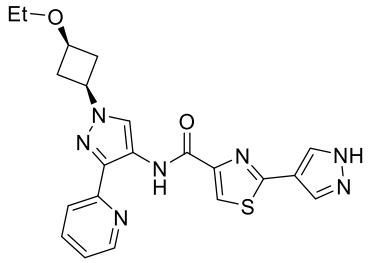
III-5: N-(1-cyclobutyl-3-(pyridin-2-yl)-1H-pyrazol-4-yl)-2-(1H-pyrazol-4-yl)oxazole-4-carboxamide;

III-6: N-(1-(2-(2-methoxyethoxy)ethyl)-3-(pyridin-2-yl)-1H-pyrazol-4-yl)-2-(1H-pyrazol-4-yl)oxazole-4-carboxamide;

2-(1H-pyrazol-3-yl)-N-(3-(pyridin-2-yl)-1-(2-(2,2,2-trifluoroethoxy)ethyl)-1H-pyrazol-4-yl)oxazole-4-carboxamide; or

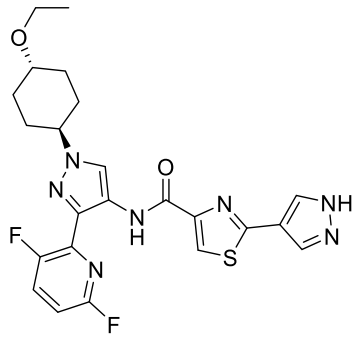
III-8: N-(1-(2-(2,2-difluoroethoxy)ethyl)-3-(pyridin-2-yl)-1H-pyrazol-4-yl)-2-(1H-pyrazol-4-yl)oxazole-4-carboxamide.

11. The compound of claim 1, having a structure



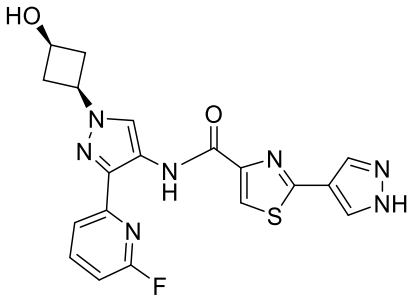
or a pharmaceutically acceptable salt thereof.

12. The compound of claim 1, having a structure



or a pharmaceutically acceptable salt thereof.

13. The compound of claim 1, having a structure



or a pharmaceutically acceptable salt thereof.

14. A composition, comprising a compound of any one of claims 1-13, and a pharmaceutically acceptable excipient.

15. A composition for use in treating a disease or condition in a subject, comprising a compound of any one of claims 1-13.

16. The composition for use according to claim 15, for use in treating a disease or condition for which an IRAK inhibitor is indicated.

17. The composition for use of claim 16, wherein the disease is an auto-immune disease, inflammatory disorder, cardiovascular disease, neurodegenerative disorder, allergic disorder, multi-organ failure, kidney disease, platelet aggregation, cancer, transplantation, sperm motility, erythrocyte deficiency, graft rejection, lung injury, respiratory disease, ischemic condition, bacterial infection, viral infection, immune regulatory disorder or a combination thereof.

18. Use of a compound according to any one of claims 1-13, or a composition according to claim 18, in the manufacture of a medicament for treating a disease or condition for which an IRAK

inhibitor is indicated.

19. A method, comprising contacting the IRAK protein with a compound of any one of claims 1-13 or a composition of claim 14 *in vitro*.

20. Use of a composition according to any one of claims 1-13 in the manufacturing of a medicament for a proliferative disease.

21. The use according to claim 20, wherein the proliferative disease is selected from benign or malignant tumors, solid tumor, carcinoma of the brain, kidney, liver, adrenal gland, bladder, breast, stomach, gastric tumors, ovaries, colon, rectum, prostate, pancreas, lung, vagina, cervix, testis, genitourinary tract, esophagus, larynx, skin, bone or thyroid, sarcoma, glioblastomas, neuroblastomas, multiple myeloma, gastrointestinal cancer, colon carcinoma, colorectal adenoma, a tumor of the neck and head, an epidermal hyperproliferation, psoriasis, prostate hyperplasia, a neoplasia, a neoplasia of epithelial character, adenoma, adenocarcinoma, keratoacanthoma, epidermoid carcinoma, large cell carcinoma, non-small-cell lung carcinoma, lymphomas, Hodgkins and Non-Hodgkins, a mammary carcinoma, follicular carcinoma, undifferentiated carcinoma, papillary carcinoma, seminoma, melanoma, IL-1 driven disorders, a MyD88 driven disorder, ABC diffuse large B-cell lymphoma (DLBCL), Waldenström's macroglobulinemia, Hodgkin's lymphoma, primary cutaneous T-cell lymphoma, chronic lymphocytic leukemia, smoldering or indolent multiple myeloma.

22. The use according to claim 20, wherein the proliferative disease is a hematological malignancy.

23. The use according to claim 22, wherein the hematological malignancy is selected from leukemia, acute myeloid leukemia (AML), DLBCL, ABC DLBCL, chronic lymphocytic leukemia (CLL), chronic lymphocytic lymphoma, primary effusion lymphoma, Burkitt lymphoma/leukemia, acute lymphocytic leukemia, B-cell prolymphocytic leukemia, lymphoplasmacytic lymphoma, myelodysplastic syndromes (MDS), myelofibrosis, polycythemia vera, Kaposi’s sarcoma, Waldenström's macroglobulinemia (WM), splenic marginal zone lymphoma, multiple myeloma, plasmacytoma, or intravascular large B-cell lymphoma.

24. The use according to claim 22, wherein the hematological malignancy is a myelodysplastic syndrome.

25. The use according to claim 20, wherein the proliferative disease is a hyperproliferative skin disease.

26. The use according to claim 25, wherein the hyperproliferative skin disease is selected from psoriasis, atopic dermatitis, contact dermatitis, eczematous dermatitis, seborrhoeic dermatitis, lichen planus, pemphigus, bullous pemphigoid, epidermolysis bullosa, urticaria, angioedemas, vasculitis, erythema, cutaneous eosinophilia, lupus erythematosus, acne, or alopecia areata.

27. The use according to claim 25, wherein the psoriasis is pustular psoriasis.