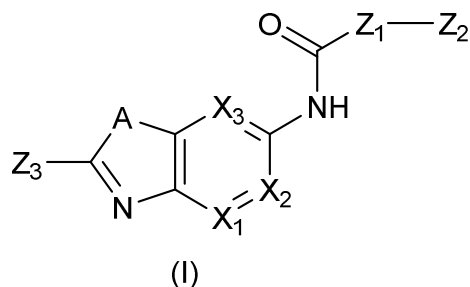


CLAIMS

1. A compound of formula (I)



or a pharmaceutically acceptable salt or a stereoisomer thereof; wherein

X_1 , X_2 and X_3 are independently CR^2 or N;

A is O, S, S(O) or S(O)₂;

Z_1 is an optionally substituted heteroaryl, optionally substituted heterocycloalkyl, optionally substituted aryl, optionally substituted cycloalkyl, optionally substituted (heterocycloalkyl)alkyl-, optionally substituted aralkyl-, optionally substituted heteroaralkyl-, optionally substituted (cycloalkyl)alkyl-, optionally substituted aryloxy-, optionally substituted heteroaryloxy-, optionally substituted heterocycloalkyloxy-, optionally substituted cycloalkyloxy-, optionally substituted aryl-NR', optionally substituted heteroaryl-NR', optionally substituted heterocycloalkyl-NR', optionally substituted cycloalkyl-NR', optionally substituted aryl-S-, optionally substituted heteroaryl-S-, optionally substituted heterocycloalkyl-S-, optionally substituted cycloalkyl-S-, optionally substituted (cycloalkyl)alkyl-NR', optionally substituted aralkyl-NR', optionally substituted (heterocycloalkyl)alkyl-NR', optionally substituted heteroaralkyl-NR', optionally substituted (cycloalkyl)alkyl-S-, optionally substituted aralkyl-S-, optionally substituted (heterocycloalkyl)alkyl-S-, optionally substituted heteroaralkyl-S-, optionally substituted (cycloalkyl)alkyl-O-, optionally substituted aralkyl-O-, optionally substituted (heterocycloalkyl)alkyl-O-, optionally substituted heteroaralkyl-O-; e.g., wherein each optional substituent independently represents an occurrence of R_x ;

Z₂ is absent, optionally substituted cycloalkyl, optionally substituted aryl, optionally substituted heterocycloalkyl, optionally substituted heteroaryl, optionally substituted aryloxy-, optionally substituted heteroaryloxy-, optionally substituted cycloalkyloxy-, optionally substituted heterocycloalkyloxy-, optionally substituted (cycloalkyl)alkyl-, optionally substituted aralkyl-, optionally substituted (heterocycloalkyl)alkyl-, optionally substituted heteroaralkyl-, optionally substituted (cycloalkyl)alkyl-NR^{''}-, optionally substituted aralkyl-NR^{''}-, optionally substituted (heterocycloalkyl)alkyl-NR^{''}-, optionally substituted heteroaralkyl-NR^{''}-, optionally substituted (cycloalkyl)alkyl-O-, optionally substituted aralkyl-O-, optionally substituted (heterocycloalkyl)alkyl-O-, optionally substituted heteroaralkyl-O-, optionally substituted (cycloalkyl)alkyl-S-, optionally substituted aralkyl-S-, optionally substituted (heterocycloalkyl)alkyl-S- or optionally substituted heteroaralkyl-S-; e.g., wherein each optional substituent independently represents an occurrence of R_y;

Z₃ is an optionally substituted cycloalkyl, optionally substituted aryl, optionally substituted heterocycloalkyl, optionally substituted heteroaryl, optionally substituted aryloxy-, optionally substituted heteroaryloxy-, optionally substituted cycloalkyloxy-, optionally substituted heterocycloalkyloxy-, optionally substituted (cycloalkyl)alkyl-, optionally substituted aralkyl-, optionally substituted (heterocycloalkyl)alkyl-, optionally substituted heteroaralkyl-, optionally substituted (cycloalkyl)-NR^{'''}-, optionally substituted aryl-NR^{'''}-, optionally substituted heteroaryl-NR^{'''}-, optionally substituted heterocycloalkyl-NR^{'''}-, optionally substituted aryl-S-, optionally substituted heteroaryl-S-, optionally substituted cycloalkyl-S-, optionally substituted heterocycloalkyl-S-, optionally substituted (cycloalkyl)alkyl-NR^{'''}-, optionally substituted aralkyl-NR^{'''}-, optionally substituted (heterocycloalkyl)alkyl-NR^{'''}-, optionally substituted heteroaralkyl-NR^{'''}-, optionally substituted (cycloalkyl)alkyl-O-, optionally substituted aralkyl-O-, optionally substituted (heterocycloalkyl)alkyl-O-, optionally substituted heteroaralkyl-O-, optionally substituted (cycloalkyl)alkyl-S-, optionally substituted aralkyl-S-, optionally substituted (heterocycloalkyl)alkyl-S- or optionally substituted heteroaralkyl-S-; e.g., wherein each optional substituent independently represents an occurrence of R_z;

each R^2 is independently selected from hydrogen, alkyl, haloalkyl, halo, cyano, optionally substituted alkoxy, optionally substituted cycloalkyl, optionally substituted (cycloalkyl)alkyl-, optionally substituted cycloalkyloxy-, optionally substituted aryl, optionally substituted aralkyl-, optionally substituted heterocycloalkyl, optionally substituted heteroaryl, optionally substituted (heterocycloalkyl)alkyl-, optionally substituted heteroaralkyl-, $-NR_aR_b$, $-O-R_3$ and $-S-R_3$; e.g., wherein each optional substituent independently represents alkyl, alkoxy, halo, haloalkyl, hydroxy, hydroxyalkyl, $-SH$, $-S(alkyl)$, cyano, amido, amino, carboxylate, glycinate, alaninate, oxo, aryl, cycloalkyl, heterocycloalkyl or heteroaryl;

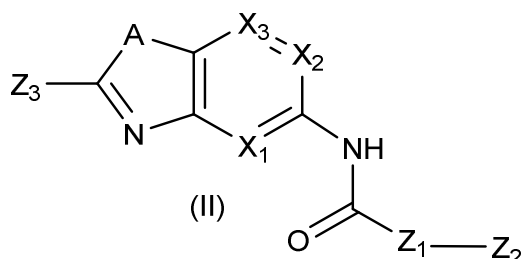
each R' , R'' and R''' is independently selected from hydrogen, alkyl, hydroxy, hydroxyalkyl, acyl and cycloalkyl;

each R_x , R_y and R_z is independently selected from alkyl, alkenyl, alkynyl, halo, hydroxy, haloalkyl, hydroxyalkyl, aminoalkyl, alkoxy, $-SH$, $-S(alkyl)$, cyano, amido, carboxylic acid, carboxylate, ester, thioester, alkoxycarbonyl, $-C(O)NH(alkyl)$, oxo, cycloalkyl, cycloalkyloxy, (cycloalkyl)alkyl-, aryl, aralkyl-, heterocycloalkyl, heteroaryl, (heterocycloalkyl)alkyl-, heteroaralkyl-, $-NR_aR_b$, $-O-R_4$ or $-S-R_4$; optionally wherein each cycloalkyl, aryl, heterocycloalkyl, or heteroaryl is further substituted by one or more substituents selected from halo, haloalkyl, amino, hydroxy, alkyl, cyano, nitro, alkenyl, aminoalkyl, hydroxyalkyl and haloalkoxy;

each R_a and R_b is independently selected from hydrogen, alkyl, aminoalkyl, acyl, aminoacyl, halo, haloalkyl, hydroxy, haloalkoxy, hydroxyalkyl, nitro, cyano, cycloalkyl, heterocycloalkyl, aryl, heteroaryl, (cycloalkyl)alkyl-, (heterocycloalkyl)alkyl-, aralkyl-, and (heteroaryl)alkyl-; optionally wherein each cycloalkyl, heterocycloalkyl, aryl or heteroaryl is further substituted by one or more substituents selected from alkyl, halo, alkenyl, cyano, hydroxy, hydroxyalkyl, alkoxy, amino and nitro; or R_a and R_b are taken together along with the atoms which they are attached to form a 3 to 8 membered optionally substituted ring; and

each R_3 and R_4 is independently selected from hydrogen, alkyl, aminoacyl, phosphate, phosphonate, alkylphosphate, alkoxycarbonyl, cycloalkyl, (cycloalkyl)alkyl-, aryl, heteroaryl, heterocycloalkyl, aralkyl-, heteroaralkyl and (heterocycloalkyl)alkyl-.

2. A compound of formula (II)



or a pharmaceutically acceptable salt or a stereoisomer thereof; wherein

X_1 , X_2 and X_3 are independently CR^2 or N;

A is O, S, S(O) or S(O)₂;

Z_1 is an optionally substituted heteroaryl, optionally substituted heterocycloalkyl, optionally substituted aryl, optionally substituted cycloalkyl, optionally substituted (heterocycloalkyl)alkyl-, optionally substituted aralkyl-, optionally substituted heteroaralkyl-, optionally substituted (cycloalkyl)alkyl-, optionally substituted aryloxy-, optionally substituted heteroaryloxy-, optionally substituted heterocycloalkyloxy-, optionally substituted cycloalkyloxy-, optionally substituted aryl-NR', optionally substituted heteroaryl-NR', optionally substituted heterocycloalkyl-NR', optionally substituted cycloalkyl-NR', optionally substituted aryl-S-, optionally substituted heteroaryl-S-, optionally substituted heterocycloalkyl-S-, optionally substituted cycloalkyl-S-, optionally substituted (cycloalkyl)alkyl-NR', optionally substituted aralkyl-NR', optionally substituted (heterocycloalkyl)alkyl-NR', optionally substituted heteroaralkyl-NR', optionally substituted (cycloalkyl)alkyl-S-, optionally substituted aralkyl-S-, optionally substituted (heterocycloalkyl)alkyl-S-, optionally substituted heteroaralkyl-S-, optionally substituted (cycloalkyl)alkyl-O-, optionally substituted aralkyl-O-, optionally substituted (heterocycloalkyl)alkyl-O-, optionally substituted heteroaralkyl-O-; e.g., wherein each optional substituent independently represents an occurrence of R_x ;

Z_2 is absent, optionally substituted cycloalkyl, optionally substituted aryl, optionally substituted heterocycloalkyl, optionally substituted heteroaryl, optionally substituted aryloxy-, optionally substituted heteroaryloxy-, optionally substituted cycloalkyloxy-, optionally substituted heterocycloalkyloxy-, optionally substituted (cycloalkyl)alkyl-, optionally

substituted aralkyl-, optionally substituted (heterocycloalkyl)alkyl-, optionally substituted heteroaralkyl-, optionally substituted (cycloalkyl)alkyl-NR^{''}-, optionally substituted aralkyl-NR^{''}-, optionally substituted (heterocycloalkyl)alkyl-NR^{''}-, optionally substituted heteroaralkyl-NR^{''}-, optionally substituted (cycloalkyl)alkyl-O-, optionally substituted aralkyl-O-, optionally substituted (heterocycloalkyl)alkyl-O-, optionally substituted heteroaralkyl-O-, optionally substituted (cycloalkyl)alkyl-S-, optionally substituted aralkyl-S-, optionally substituted (heterocycloalkyl)alkyl-S- or optionally substituted heteroaralkyl-S-; e.g., wherein each optional substituent independently represents an occurrence of R_y;

Z₃ is an optionally substituted cycloalkyl, optionally substituted aryl, optionally substituted heterocycloalkyl, optionally substituted heteroaryl, optionally substituted aryloxy-, optionally substituted heteroaryloxy-, optionally substituted cycloalkyloxy-, optionally substituted heterocycloalkyloxy-, optionally substituted (cycloalkyl)alkyl-, optionally substituted aralkyl-, optionally substituted (heterocycloalkyl)alkyl-, optionally substituted heteroaralkyl-, optionally substituted (cycloalkyl)-NR^{'''}-, optionally substituted aryl-NR^{'''}-, optionally substituted heteroaryl-NR^{'''}-, optionally substituted heterocycloalkyl-NR^{'''}-, optionally substituted aryl-S-, optionally substituted heteroaryl-S-, optionally substituted cycloalkyl-S-, optionally substituted heterocycloalkyl-S-, optionally substituted (cycloalkyl)alkyl-NR^{'''}-, optionally substituted aralkyl-NR^{'''}-, optionally substituted (heterocycloalkyl)alkyl-NR^{'''}-, optionally substituted heteroaralkyl-NR^{'''}-, optionally substituted (cycloalkyl)alkyl-O-, optionally substituted aralkyl-O-, optionally substituted (heterocycloalkyl)alkyl-O-, optionally substituted heteroaralkyl-O-, optionally substituted (cycloalkyl)alkyl-S-, optionally substituted aralkyl-S-, optionally substituted (heterocycloalkyl)alkyl-S- or optionally substituted heteroaralkyl-S-; e.g., wherein each optional substituent independently represents an occurrence of R_z;

each R² is independently selected from hydrogen, alkyl, haloalkyl, halo, cyano, optionally substituted alkoxy, optionally substituted cycloalkyl, optionally substituted (cycloalkyl)alkyl-, optionally substituted cycloalkyloxy-, optionally substituted aryl, optionally substituted aralkyl-, optionally substituted heterocycloalkyl, optionally substituted heteroaryl, optionally substituted (heterocycloalkyl)alkyl-, optionally

substituted heteroaralkyl-, -NR_aR_b,-O-R₃ and -S-R₃; e.g., wherein each optional substituent independently represents alkyl, alkoxy, halo, haloalkyl, hydroxy, hydroxyalkyl, -SH, -S(alkyl), cyano, amido, amino, carboxylate, glycinate, alaninate, oxo, aryl, cycloalkyl, heterocycloalkyl or heteroaryl;

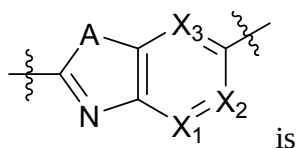
each R', R'' and R''' is independently selected from hydrogen, alkyl, hydroxy, hydroxyalkyl, acyl and cycloalkyl;

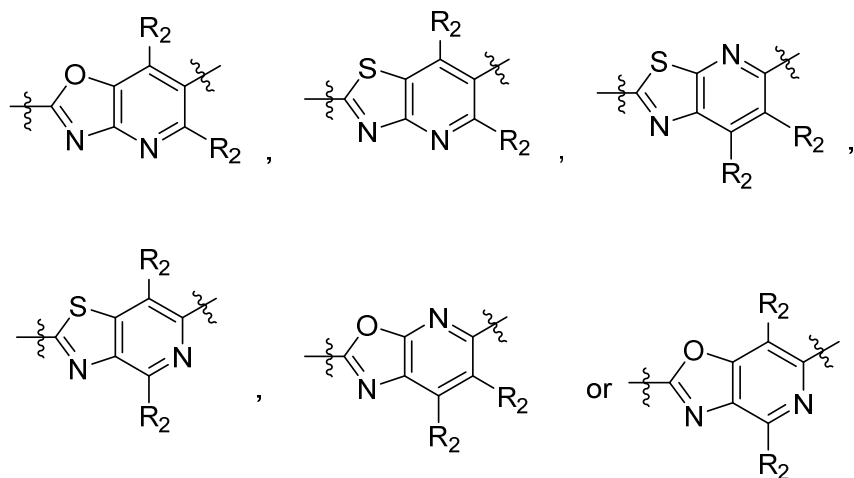
each R_x, R_y and R_z is independently selected from alkyl, alkenyl, alkynyl, halo, hydroxy, haloalkyl, hydroxyalkyl, aminoalkyl, alkoxy, -SH, -S(alkyl), cyano, amido, carboxylic acid, carboxylate, ester, thioester, alkoxycarbonyl, -C(O)NH(alkyl), oxo, cycloalkyl, cycloalkyloxy, (cycloalkyl)alkyl-, aryl, aralkyl-, heterocycloalkyl, heteroaryl, (heterocycloalkyl)alkyl-, heteroaralkyl-, -NR_aR_b,-O-R₄ or -S-R₄; optionally wherein each cycloalkyl, aryl, heterocycloalkyl, or heteroaryl is further substituted by one or more substituents selected from halo, haloalkyl, amino, hydroxy, alkyl, cyano, nitro, alkenyl, aminoalkyl, hydroxyalkyl and haloalkoxy;

each R_a and R_b is independently selected from hydrogen, alkyl, aminoalkyl, acyl, aminoacyl, halo, haloalkyl, hydroxy, haloalkoxy, hydroxyalkyl, nitro, cyano, cycloalkyl, heterocycloalkyl, aryl, heteroaryl, (cycloalkyl)alkyl-, (heterocycloalkyl)alkyl-, aralkyl-, and (heteroaryl)alkyl-; optionally wherein each cycloalkyl, heterocycloalkyl, aryl or heteroaryl is further substituted by one or more substituents selected from alkyl, halo, alkenyl, cyano, hydroxy, hydroxyalkyl, alkoxy, amino and nitro; or R_a and R_b are taken together along with the atoms which they are attached to form a 3 to 8 membered optionally substituted ring; and

each R₃ and R₄ is independently selected from hydrogen, alkyl, aminoacyl, phosphate, phosphonate, alkylphosphate, alkoxycarbonyl, cycloalkyl, (cycloalkyl)alkyl-, aryl, heteroaryl, heterocycloalkyl, aralkyl-, heteroaralkyl and (heterocycloalkyl)alkyl-.

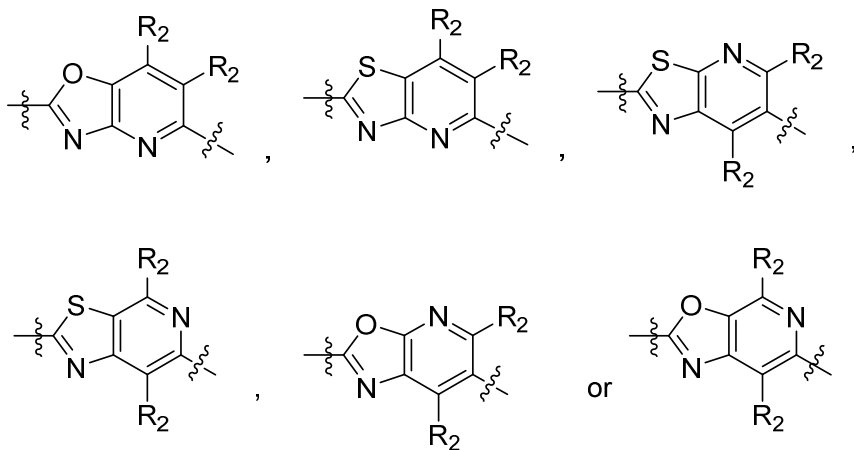
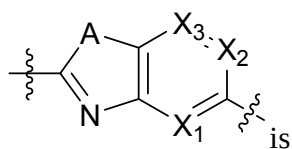
3. The compound of formula (I) according to claim 1, wherein the group





wherein is a point of attachment.

4. The compound of formula (I) according to claim 2, wherein the group



wherein is a point of attachment.

5. The compound of any one of claims 1-4, wherein Z₁ is an optionally substituted heteroaryl, optionally substituted heterocycloalkyl, optionally substituted aryl or optionally

substituted cycloalkyl; wherein each optional substituent independently represents an occurrence of R_x .

6. The compound of claim 5, wherein Z_1 is an optionally substituted monocyclic heterocycloalkyl or optionally substituted monocyclic heteroaryl, wherein each optional substituent independently represents an occurrence of R_x .

7. The compound of claim 5, wherein Z_1 is an optionally substituted bicyclic heterocycloalkyl or optionally substituted bicyclic heteroaryl, wherein each optional substituent independently represents an occurrence of R_x .

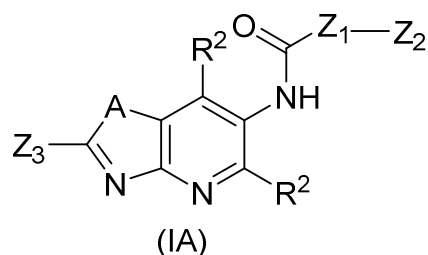
8. The compound of any one of claims 1 to 7, wherein Z_1 is selected from phenyl, naphthyl, furanyl, thienyl, pyrrolyl, pyrazolyl, imidazolyl, oxazolyl, isoxazolyl, thiazolyl, isothiazolyl, 1H-tetrazolyl, oxadiazolyl, triazolyl, pyridyl, pyrimidinyl, pyrazinyl, pyridazinyl, benzimidazolyl, benzoxadiazolyl, benzoxathiadiazolyl, cinnolinyl, furopyridinyl, naphthyridinyl, benzisoxazolyl, benzothiazolyl, benzofuranyl, benzothienyl, benzotriazinyl, phthalazinyl, thianthrene, dibenzofuranyl, dibenzothienyl, indolyl, isoindolyl, indazolyl, quinoliny, isoquinoliny, quinazolinyl, quinoxalinyl, purinyl, pteridinyl, 9H-carbazolyl, α -carboline, indoliziny, benzoisothiazolyl, benzoxazolyl, pyrrolopyridyl, benzotriazolyl, benzotriadiazolyl, carbazolyl, acridinyl, pyrazolopyrimidyl, azetidiny, oxetanyl, imidazolidinyl, pyrrolidinyl, oxazolidinyl, thiazolidinyl, pyrazolidinyl, tetrahydrofuranyl, piperidinyl, piperazinyl, morpholiny, thiomorpholiny, 1,4-dioxanyl, dioxidothiomorpholiny, oxapiperazinyl, oxapiperidinyl, tetrahydrofuryl, tetrahydropyranyl, tetrahydrothiophenyl, dihydropyranyl and azabicyclo[3.2.1]octanyl; each of which is optionally substituted, and each optional substituent independently represents an occurrence of R_x .

9. The compound any one of claims 1 to 8, wherein Z_2 is an optionally substituted heterocycloalkyl, optionally substituted heteroaryl or is absent; wherein each optional substituent independently represents an occurrence of R_y .

10. The compound of claim 9, wherein Z_2 is absent.

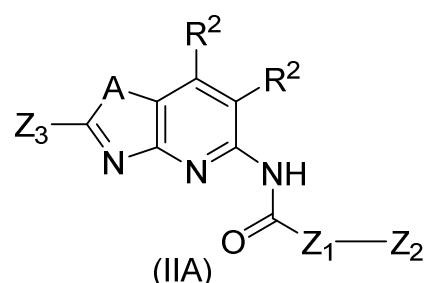
11. The compound of any one of claims 1 to 10, wherein Z_3 is an optionally substituted cycloalkyl, optionally substituted aryl, optionally substituted heterocycloalkyl, or optionally substituted heteroaryl; wherein each optional substituent independently represents an occurrence of R_z .
12. The compound of claim 11, wherein Z_3 is an optionally substituted heterocycloalkyl or optionally substituted heteroaryl; wherein each optional substituent independently represents an occurrence of R_z .
13. The compound of any one of claims 1 to 8, wherein R_x is alkyl, halo, hydroxy, haloalkyl, hydroxyalkyl, aminoalkyl, alkoxy, amido, carboxylic acid, carboxylate, oxo, cycloalkyl, aryl, $-NR_aR_b$ or $-O-R_4$; optionally wherein each cycloalkyl or aryl are further substituted by one or more substituents selected from halo, haloalkyl, amino, hydroxy, alkyl, cyano, aminoalkyl, hydroxyalkyl and haloalkoxy.
14. The compound of any one of claims 1-4 and 9, wherein R_y is alkyl, halo, hydroxy, haloalkyl, hydroxyalkyl, aminoalkyl, alkoxy, cyano, amido, carboxylic acid, carboxylate, ester, alkoxy carbonyl, oxo, cycloalkyl, aryl, aralkyl, heterocycloalkyl, heteroaryl, (heterocycloalkyl)alkyl-, heteroaralkyl, or $-NR_aR_b$, $-O-R_4$; optionally wherein each cycloalkyl, aryl, heterocycloalkyl, heteroaryl is further substituted by one or more substituents selected from halo, haloalkyl, amino, hydroxy, alkyl, cyano, nitro, alkenyl, aminoalkyl, hydroxyalkyl and haloalkoxy.
15. The compound of claim 1, wherein at least one occurrence of R^2 is haloalkyl, optionally substituted alkyl, optionally substituted cycloalkyl, optionally substituted aryl, optionally substituted heterocycloalkyl, optionally substituted heteroaryl, $-NR_aR_b$, $-O-R_3$ or $-S-R_3$; wherein each optional substituent is independently selected from alkyl, alkoxy, halo, haloalkyl, hydroxy, hydroxyalkyl, amido, amino, carboxylate, oxo and cycloalkyl.
16. The compound of any one of the preceding claims, wherein X_1 , X_2 and X_3 are each independently CR^2 or N; provided that at least one of X_1 , X_2 and X_3 is N.

17. The compound of claim 1, having the structure of formula (IA):



or a pharmaceutically acceptable salt or a stereoisomer thereof.

18. The compound of claim 2, having the structure of formula (IIA):



or a pharmaceutically acceptable salt or a stereoisomer thereof.

19. A compound selected from

Example	IUPAC name
1	N-(2-(4-methylpiperazin-1-yl)-5-(piperidin-1-yl)thiazolo[4,5-b]pyridin-6-yl)-2-(2-methylpyridin-4-yl)oxazole-4-carboxamide hydrochloride;
2	N-(5-(4-hydroxy-4-(hydroxymethyl)piperidin-1-yl)-2-morpholinethiazolo[4,5-b]pyridin-6-yl)-5-(2-methylpyridin-4-yl)furan-2-carboxamide hydrochloride;
3	2-(1-methyl-6-oxo-1,6-dihydropyridin-3-yl)-N-(2-morpholino-5-(piperidin-1-yl)thiazolo[4,5-b]pyridin-6-yl)oxazole-4-carboxamide;
4	N-(5-(4-hydroxy-4-(hydroxymethyl)piperidin-1-yl)-2-morpholinethiazolo[4,5-b]pyridin-6-yl)-2-(2-methylpyridin-4-yl)oxazole-5-carboxamide hydrochloride;
5	N-(5-(3-hydroxy-3-(hydroxymethyl)piperidin-1-yl)-2-morpholinethiazolo[4,5-b]pyridin-6-yl)-5-(2-methylpyridin-4-yl)furan-2-carboxamide hydrochloride;

Example	IUPAC name
6	2-(2-methylpyridin-4-yl)-N-(2-morpholino-5-(((1r,4r)-4-morpholinocyclohexyl)oxy)thiazolo[4,5-b]pyridin-6-yl)oxazole-4-carboxamide hydrochloride;
7	2-(2-methylpyridin-4-yl)-N-(2-(piperazin-1-yl)-5-(piperidin-1-yl)thiazolo[4,5-b]pyridin-6-yl)oxazole-4-carboxamide hydrochloride;
8	(S)-N-(5-(4-hydroxy-4-(hydroxymethyl)piperidin-1-yl)-2-morpholinothiazolo[4,5-b]pyridin-6-yl)-6-(3-hydroxypyrrolidin-1-yl)picolinamide hydrochloride;
9	N-(5-(3-hydroxy-3-(hydroxymethyl)pyrrolidin-1-yl)-2-morpholinothiazolo[4,5-b]pyridin-6-yl)-2-(2-methylpyridin-4-yl)oxazole-4-carboxamide hydrochloride;
10	N-(2-(4-(2-hydroxyacetyl)piperazin-1-yl)-5-(piperidin-1-yl)thiazolo[4,5-b]pyridin-6-yl)-2-(2-methylpyridin-4-yl)oxazole-4-carboxamide hydrochloride;
11	2-(6-aminopyridin-2-yl)-N-(2-morpholino-5-(piperidin-1-yl)thiazolo[4,5-b]pyridin-6-yl)oxazole-4-carboxamide hydrochloride;
12	2-(2-amino-5-chloropyridin-4-yl)-N-(2-morpholino-5-(piperidin-1-yl)thiazolo[4,5-b]pyridin-6-yl)oxazole-4-carboxamide;
13	2-(5-fluoro-1-methyl-6-oxo-1,6-dihydropyridin-3-yl)-N-(2-morpholino-5-(piperidin-1-yl)thiazolo[4,5-b]pyridin-6-yl)oxazole-4-carboxamide;
14	N-(5-(5-methylpyridin-2-yl)-2-morpholinooxazolo[4,5-b]pyridin-6-yl)-2-(2-methylpyridin-4-yl)oxazole-4-carboxamide;
15	N-(5-(3-hydroxy-3-(hydroxymethyl)piperidin-1-yl)-2-morpholinooxazolo[4,5-b]pyridin-6-yl)-2-(2-methylpyridin-4-yl)oxazole-4-carboxamide;
16	2-(2-methylpyridin-4-yl)-N-(2-morpholino-5-(((1r,4r)-4-morpholinocyclohexyl)oxy)oxazolo[4,5-b]pyridin-6-yl)oxazole-4-carboxamide hydrochloride;
17	(S)-N-(5-(3-fluoropyrrolidin-1-yl)-2-morpholinooxazolo[4,5-b]pyridin-6-yl)-2-(2-methylpyridin-4-yl)oxazole-4-carboxamide;
18	(R)-N-(5-(3-fluoropyrrolidin-1-yl)-2-morpholinooxazolo[4,5-b]pyridin-6-yl)-2-(2-methylpyridin-4-yl)oxazole-4-carboxamide hydrochloride;

Example	IUPAC name
19	N-(2-morpholino-5-(piperidin-1-yl)thiazolo[4,5-b]pyridin-6-yl)pyrazolo[1,5-a]pyrimidine-3-carboxamide;
20	N-(5-(5-methylpyridin-2-yl)-2-morpholinothiazolo[4,5-b]pyridin-6-yl)pyrazolo[1,5-a]pyrimidine-3-carboxamide;
21	5-(3-aminopiperidin-1-yl)-N-(5-cyclopropyl-2-morpholinothiazolo[4,5-b]pyridin-6-yl)pyrazolo[1,5-a]pyrimidine-3-carboxamide;
22	5-((2-aminoethyl)amino)-N-(5-cyclopropyl-2-morpholinothiazolo[4,5-b]pyridin-6-yl)pyrazolo[1,5-a]pyrimidine-3-carboxamide;
23	5-(3-aminopyrrolidin-1-yl)-N-(5-cyclopropyl-2-morpholinothiazolo[4,5-b]pyridin-6-yl)pyrazolo[1,5-a]pyrimidine-3-carboxamide hydrochloride;
24	N-(2-morpholino-5-(piperidin-1-yl)oxazolo[4,5-b]pyridin-6-yl)pyrazolo[1,5-a]pyrimidine-3-carboxamide;
25	(R)-N-(5-(3-hydroxypyrrolidin-1-yl)-2-morpholinooxazolo[4,5-b]pyridin-6-yl)pyrazolo[1,5-a]pyrimidine-3-carboxamide;
26	(S)-6-(3-aminopyrrolidin-1-yl)-N-(2-morpholino-5-(piperidin-1-yl)thiazolo[4,5-b]pyridin-6-yl)picolinamide;
27	(S)-6-(3-(2-aminoacetamido)pyrrolidin-1-yl)-N-(2-morpholino-5-(piperidin-1-yl)thiazolo[4,5-b]pyridin-6-yl)picolinamide;
28	N-(5-((R)-3-hydroxypiperidin-1-yl)-2-morpholinothiazolo[4,5-b]pyridin-6-yl)-6-((S)-3-hydroxypyrrolidin-1-yl)picolinamide;
29	(S)-6-(3-hydroxypiperidin-1-yl)-N-(2-morpholino-5-(piperidin-1-yl)thiazolo[4,5-b]pyridin-6-yl)picolinamide;
30	(R)-6-(3-hydroxypiperidin-1-yl)-N-(2-morpholino-5-(piperidin-1-yl)thiazolo[4,5-b]pyridin-6-yl)picolinamide;
31	6-(4-methoxypiperidin-1-yl)-N-(2-morpholino-5-(piperidin-1-yl)thiazolo[4,5-b]pyridin-6-yl)picolinamide;
32	6-(4-(hydroxymethyl)piperidin-1-yl)-N-(2-morpholino-5-(piperidin-1-yl)thiazolo[4,5-b]pyridin-6-yl)picolinamide;

Example	IUPAC name
33	(R)-6-(2-(hydroxymethyl)morpholino)-N-(2-morpholino-5-(piperidin-1-yl)thiazolo[4,5-b]pyridin-6-yl)picolinamide;
34	(R)-6-(3-hydroxypyrrolidin-1-yl)-N-(2-morpholino-5-(piperidin-1-yl)thiazolo[4,5-b]pyridin-6-yl)picolinamide;
35	6-(4-(2-hydroxyethyl)piperidin-1-yl)-N-(2-morpholino-5-(piperidin-1-yl)thiazolo[4,5-b]pyridin-6-yl)picolinamide;
36	(S)-1-(6-((2-morpholino-5-(piperidin-1-yl)thiazolo[4,5-b]pyridin-6-yl)carbamoyl)pyridin-2-yl)pyrrolidin-3-ylglycinate 2,2,2-trifluoroacetate;
37	N-(2-morpholino-5-(piperidin-1-yl)thiazolo[4,5-b]pyridin-6-yl)-6-(((tetrahydro-2H-pyran-4-yl)methyl)amino)picolinamide;
38	(R)-6-(4-hydroxypiperidin-1-yl)-N-(5-(3-hydroxypiperidin-1-yl)-2-morpholinothiazolo[4,5-b]pyridin-6-yl)picolinamide;
39	(R)-6-(azepan-1-yl)-N-(5-(3-hydroxypiperidin-1-yl)-2-morpholinothiazolo[4,5-b]pyridin-6-yl)picolinamide;
40	(R)-N-(5-(3-hydroxypiperidin-1-yl)-2-morpholinothiazolo[4,5-b]pyridin-6-yl)-6-(piperidin-1-yl)picolinamide;
41	(R)-N-(5-(3-hydroxypiperidin-1-yl)-2-morpholinothiazolo[4,5-b]pyridin-6-yl)-2'-methyl-[2,4'-bipyridine]-6-carboxamide;
42	(S)-6-(3-hydroxypyrrolidin-1-yl)-N-(2-morpholino-5-(piperidin-1-yl)thiazolo[4,5-b]pyridin-6-yl)picolinamide hydrochloride;
43	6-(3-hydroxypyrrolidin-1-yl)-N-(5-methyl-2-morpholinothiazolo[4,5-b]pyridin-6-yl)picolinamide;
44	6-(3-hydroxypyrrolidin-1-yl)-N-(2-morpholino-5-(trifluoromethyl)thiazolo[4,5-b]pyridin-6-yl)picolinamide;
45	6-(2-oxa-5-azabicyclo[2.2.1]heptan-5-yl)-N-(2-morpholino-5-(piperidin-1-yl)thiazolo[4,5-b]pyridin-6-yl)picolinamide;
46	6-((4-(hydroxymethyl)cyclohexyl)amino)-N-(2-morpholino-5-(piperidin-1-yl)thiazolo[4,5-b]pyridin-6-yl)picolinamide;

Example	IUPAC name
47	(S)-diethyl (1-(6-((2-morpholino-5-(piperidin-1-yl)thiazolo[4,5-b]pyridin-6-yl)carbamoyl)pyridin-2-yl)pyrrolidin-3-yl)phosphate;
48	methyl 1-(6-((2-morpholino-5-(piperidin-1-yl)thiazolo[4,5-b]pyridin-6-yl)carbamoyl)pyridin-2-yl)-2-oxoimidazolidine-4-carboxylate;
49	1-(6-((2-morpholino-5-(piperidin-1-yl)thiazolo[4,5-b]pyridin-6-yl)carbamoyl)pyridin-2-yl)-2-oxoimidazolidine-4-carboxylic acid;
50	N-(5-cyclopropyl-2-morpholinothiazolo[4,5-b]pyridin-6-yl)-6-(3-hydroxypyrrolidin-1-yl)pyrazine-2-carboxamide;
51	6'-amino-N-(5-cyclopropyl-2-morpholinothiazolo[4,5-b]pyridin-6-yl)-[2,3'-bipyridine]-6-carboxamide;
52	2'-amino-N-(5-cyclopropyl-2-morpholinothiazolo[4,5-b]pyridin-6-yl)-[2,4'-bipyridine]-6-carboxamide;
53	2-(3-hydroxypyrrolidin-1-yl)-N-(2-morpholino-5-(piperidin-1-yl)thiazolo[4,5-b]pyridin-6-yl)pyrimidine-4-carboxamide;
54	6-(3-hydroxypyrrolidin-1-yl)-N-(2-morpholino-5-(piperidin-1-yl)thiazolo[4,5-b]pyridin-6-yl)pyrazine-2-carboxamide hydrochloride;
55	6-(3-hydroxypiperidin-1-yl)-N-(2-morpholino-5-(piperidin-1-yl)thiazolo[4,5-b]pyridin-6-yl)picolinamide;
56	6-(4-hydroxypiperidin-1-yl)-N-(2-morpholino-5-(piperidin-1-yl)thiazolo[4,5-b]pyridin-6-yl)picolinamide;
57	(S)-1-(6-((2-morpholino-5-(piperidin-1-yl)thiazolo[4,5-b]pyridin-6-yl)carbamoyl)pyridin-2-yl)pyrrolidin-3-ylalaninate;
58	(S)-ethyl (1-(6-((2-morpholino-5-(piperidin-1-yl)thiazolo[4,5-b]pyridin-6-yl)carbamoyl)pyridin-2-yl)pyrrolidin-3-yl)carbonate;
59	(R)-2-(3-hydroxypyrrolidin-1-yl)-N-(2-morpholino-5-(piperidin-1-yl)thiazolo[4,5-b]pyridin-6-yl)pyrimidine-4-carboxamide;
60	(S)-2-(3-hydroxypyrrolidin-1-yl)-N-(2-morpholino-5-(piperidin-1-yl)thiazolo[4,5-b]pyridin-6-yl)pyrimidine-4-carboxamide;

Example	IUPAC name
61	N-(2-morpholino-5-(piperidin-1-yl)thiazolo[4,5-b]pyridin-6-yl)-6-(3-oxopiperazin-1-yl)picolinamide;
62	(R)-6-(3-hydroxypyrrolidin-1-yl)-N-(2-morpholino-5-(piperidin-1-yl)thiazolo[4,5-b]pyridin-6-yl)pyrazine-2-carboxamide;
63	(S)-6-(3-hydroxypyrrolidin-1-yl)-N-(2-morpholino-5-(piperidin-1-yl)thiazolo[4,5-b]pyridin-6-yl)pyrazine-2-carboxamide;
64	(S)-1-(4-((2-morpholino-5-(piperidin-1-yl)thiazolo[4,5-b]pyridin-6-yl)carbamoyl)pyrimidin-2-yl)pyrrolidin-3-yl glycinate;
65	(S)-1-(6-((2-morpholino-5-(piperidin-1-yl)thiazolo[4,5-b]pyridin-6-yl)carbamoyl)pyrazin-2-yl)pyrrolidin-3-yl glycinate;
66	1-(6-((2-morpholino-5-(piperidin-1-yl)thiazolo[4,5-b]pyridin-6-yl)carbamoyl)pyridin-2-yl)piperidin-4-yl glycinate;
67	6-(4-(hydroxymethyl)-1H-imidazol-1-yl)-N-(2-morpholino-5-(piperidin-1-yl)thiazolo[4,5-b]pyridin-6-yl)picolinamide;
68	(S)-4-(3-hydroxypyrrolidin-1-yl)-N-(2-morpholino-5-(piperidin-1-yl)thiazolo[4,5-b]pyridin-6-yl)picolinamide;
69	6-(4-(hydroxymethyl)-1H-pyrazol-1-yl)-N-(2-morpholino-5-(piperidin-1-yl)thiazolo[4,5-b]pyridin-6-yl)picolinamide;
70	6-(4-(aminomethyl)-1H-imidazol-1-yl)-N-(2-morpholino-5-(piperidin-1-yl)thiazolo[4,5-b]pyridin-6-yl)picolinamide 2,2,2-trifluoroacetate;
71	sodium 1-(6-((2-morpholino-5-(piperidin-1-yl)thiazolo[4,5-b]pyridin-6-yl)carbamoyl)pyridin-2-yl)piperidine-4-carboxylate;
72	(R)-N-(5-(3-hydroxypyrrolidin-1-yl)-2-morpholinothiazolo[4,5-b]pyridin-6-yl)-4-(2-methylpyridin-4-yl)-1H-imidazole-2-carboxamide 2,2,2-trifluoroacetate;
73	(R)-N-(5-(3-hydroxypyrrolidin-1-yl)-2-morpholinothiazolo[4,5-b]pyridin-6-yl)-4-(2-methylpyridin-4-yl)-1H-pyrrole-2-carboxamide;
74	2-(5-methoxypyridin-2-yl)-N-(2-morpholino-5-(piperidin-1-yl)thiazolo[4,5-b]pyridin-6-yl)oxazole-4-carboxamide;

Example	IUPAC name
75	6'-amino-N-(2-morpholino-5-(piperidin-1-yl)thiazolo[4,5-b]pyridin-6-yl)-[2,3'-bipyridine]-6-carboxamide;
76	N-(2,5-dimorpholinothiazolo[4,5-b]pyridin-6-yl)-6-(3-hydroxypyrrolidin-1-yl)picolinamide;
77	6-(3-(hydroxymethyl)pyrrolidin-1-yl)-N-(2-morpholino-5-(piperidin-1-yl)thiazolo[4,5-b]pyridin-6-yl)picolinamide;
78	6-(3-(hydroxymethyl)piperidin-1-yl)-N-(2-morpholino-5-(piperidin-1-yl)thiazolo[4,5-b]pyridin-6-yl)picolinamide;
79	1-(6-((2,5-dimorpholinothiazolo[4,5-b]pyridin-6-yl)carbamoyl)pyridin-2-yl)pyrrolidin-3-yl glycinate;
80	1-(6-((2-morpholino-5-(piperidin-1-yl)thiazolo[4,5-b]pyridin-6-yl)carbamoyl)pyridin-2-yl)piperidine-4-carboxylic acid;
81	6-(3-hydroxy-8-azabicyclo[3.2.1]octan-8-yl)-N-(2-morpholino-5-(piperidin-1-yl)thiazolo[4,5-b]pyridin-6-yl)picolinamide;
82	6-(4-carbamoylpiperidin-1-yl)-N-(2-morpholino-5-(piperidin-1-yl)thiazolo[4,5-b]pyridin-6-yl)picolinamide;
83	2'-amino-N-(2-morpholino-5-(piperidin-1-yl)thiazolo[4,5-b]pyridin-6-yl)-[2,4'-bipyridine]-6-carboxamide;
84	(S)-6-(3-hydroxypyrrolidin-1-yl)-5-methyl-N-(2-morpholino-5-(piperidin-1-yl)thiazolo[4,5-b]pyridin-6-yl)picolinamide;
85	6'-amino-3-methyl-N-(2-morpholino-5-(piperidin-1-yl)thiazolo[4,5-b]pyridin-6-yl)-[2,3'-bipyridine]-6-carboxamide;
86	N-(5-(4,4-dimethyl-2-oxopyrrolidin-1-yl)-2-morpholinooxazolo[4,5-b]pyridin-6-yl)-2-(2-methylpyridin-4-yl)oxazole-4-carboxamide;
87	(R)-2-(6-aminopyridin-2-yl)-N-(5-(3-hydroxypyrrolidin-1-yl)-2-morpholinooxazolo[4,5-b]pyridin-6-yl)oxazole-4-carboxamide hydrochloride;
88	(R)-2-(2-amino-5-chloropyridin-4-yl)-N-(5-(3-hydroxypyrrolidin-1-yl)-2-morpholinooxazolo[4,5-b]pyridin-6-yl)oxazole-4-carboxamide;

Example	IUPAC name
89	2-(2-methylpyridin-4-yl)-N-(2-morpholino-5-(2-oxopyrrolidin-1-yl)oxazolo[4,5-b]pyridin-6-yl)oxazole-4-carboxamide hydrochloride;
90	(R)-6'-amino-N-(5-(3-hydroxypyrrolidin-1-yl)-2-morpholinooxazolo[4,5-b]pyridin-6-yl)-[2,3'-bipyridine]-6-carboxamide hydrochloride;
91	(R)-N-(5-(3-hydroxypyrrolidin-1-yl)-2-morpholinooxazolo[4,5-b]pyridin-6-yl)-5-(2-methylpyridin-4-yl)furan-2-carboxamide hydrochloride;
92	6'-amino-N-(2,5-dimorpholinooxazolo[4,5-b]pyridin-6-yl)-[2,3'-bipyridine]-6-carboxamide hydrochloride;
93	2-(6-aminopyridin-2-yl)-N-(2-morpholino-5-(piperidin-1-yl)oxazolo[4,5-b]pyridin-6-yl)oxazole-4-carboxamide;
94	6-(1-((S)-2-hydroxypropyl)-1H-pyrazol-4-yl)-N-(5-((R)-3-hydroxypyrrolidin-1-yl)-2-morpholinooxazolo[4,5-b]pyridin-6-yl)picolinamide;
95	(R)-N-(5-(3-(cyclopropylmethoxy)pyrrolidin-1-yl)-2-morpholinooxazolo[4,5-b]pyridin-6-yl)-2-(2-methylpyridin-4-yl)oxazole-4-carboxamide;
96	6'-amino-N-(2-morpholino-5-(piperidin-1-yl)oxazolo[4,5-b]pyridin-6-yl)-[2,3'-bipyridine]-6-carboxamide;
97	(R)-1-(6-(2-(2-methylpyridin-4-yl)oxazole-4-carboxamido)-2-morpholinooxazolo[4,5-b]pyridin-5-yl)pyrrolidin-3-yl glycinate;
98	5-(4-aminopiperidin-1-yl)-N-(5-cyclopropyl-2-morpholinethiazolo[4,5-b]pyridin-6-yl)pyrazolo[1,5-a]pyrimidine-3-carboxamide 2,2,2-trifluoroacetate;
99	5-(4-aminopiperidin-1-yl)-N-(5-cyclopropyl-2-morpholinethiazolo[4,5-b]pyridin-6-yl)pyrazolo[1,5-a]pyrimidine-3-carboxamide 2,2,2-trifluoroacetate;
100	(S)-N-(5-cyclopropyl-2-morpholinethiazolo[4,5-b]pyridin-6-yl)-5-(3-hydroxypiperidin-1-yl)pyrazolo[1,5-a]pyrimidine-3-carboxamide;
101	N-(5-cyclopropyl-2-morpholinethiazolo[4,5-b]pyridin-6-yl)-5-(4-hydroxypiperidin-1-yl)pyrazolo[1,5-a]pyrimidine-3-carboxamide;
102	5-(3-aminopiperidin-1-yl)-N-(5-((R)-3-hydroxypyrrolidin-1-yl)-2-morpholinethiazolo[4,5-b]pyridin-6-yl)pyrazolo[1,5-a]pyrimidine-3-carboxamide

Example	IUPAC name
	hydrochloride;
103	(R)-N-(5-(3-hydroxypyrrolidin-1-yl)-2-morpholinothiazolo[4,5-b]pyridin-6-yl)pyrazolo[1,5-a]pyrimidine-3-carboxamide hydrochloride;
104	N-(2-morpholino-5-(piperidin-1-yl)thiazolo[4,5-b]pyridin-6-yl)pyrazolo[1,5-a]pyrimidine-3-carboxamide hydrochloride;
105	N-(5-cyclopropyl-2-morpholinothiazolo[4,5-b]pyridin-6-yl)pyrazolo[1,5-a]pyrimidine-3-carboxamide;
106	N-(5-cyclopropyl-2-morpholinothiazolo[4,5-b]pyridin-6-yl)pyrazolo[1,5-a]pyrimidine-3-carboxamide hydrochloride; and
107	N-(5-cyclopropyl-2-morpholinooxazolo[4,5-b]pyridin-6-yl)pyrazolo[1,5-a]pyrimidine-3-carboxamide;

or a pharmaceutically acceptable salt or a stereoisomer thereof.

20. A pharmaceutical composition, comprising at least one compound according to any one of claims 1 to 19, or a pharmaceutically acceptable salt or a stereoisomer thereof and a pharmaceutically acceptable carrier, a pharmaceutically acceptable excipient or a pharmaceutically acceptable diluent.

21. Use of a compound according to any one of claims 1 to 19 in the manufacture of a medicament for the treatment of an IRAK-4-mediated disorder, disease or condition in a subject.

22. The use of claim 21, wherein the IRAK-4-mediated disorder or disease or condition is selected from the group consisting of cancer, an inflammatory disorder, an autoimmune disease, a metabolic disorder, a hereditary disorder, a hormone-related disease, an immunodeficiency disorder, a condition associated with cell death, a destructive bone disorder, thrombin-induced platelet aggregation, liver disease, and a cardiovascular disorder.

23. The use of claim 22, wherein the cancer is selected from a solid tumor, benign or malignant tumor; carcinoma of the brain, kidney, liver, stomach, vagina, ovaries, gastric tumors,

breast, bladder, colon, prostate, pancreas, lung, cervix, testis, skin, bone or thyroid; sarcoma, glioblastoma, neuroblastoma, gastrointestinal cancer, a tumor of the neck and head, an epidermal hyperproliferation, prostate hyperplasia, a neoplasia, adenoma, adenocarcinoma, keratoacanthoma, epidermoid carcinoma, large cell carcinoma, non-small-cell lung carcinoma, lymphomas, Hodgkins and Non-Hodgkins lymphoma, mammary carcinoma, follicular carcinoma, papillary carcinoma, seminoma, melanoma, haematological malignancies, leukemia, acute myeloid leukemia (AML), chronic myeloid leukemia (CML), diffuse large B-cell lymphoma (DLBCL), activated B-cell-like DLBCL, chronic lymphocytic leukemia (CLL), chronic lymphocytic lymphoma, primary effusion lymphoma, Burkitt's lymphoma, Burkitt's leukemia, acute lymphocytic leukemia, B-cell pro lymphocytic leukemia, lymphoplasmacytic lymphoma, Waldenstrom's macroglobulinemia (WM), splenic marginal zone lymphoma, intravascular large B-cell lymphoma, plasmacytoma and multiple myeloma.

24. The use of claim 22, wherein the inflammatory disorder is selected from ocular allergy, conjunctivitis, keratoconjunctivitis sicca, vernal conjunctivitis, allergic rhinitis, autoimmune hematological disorders (e.g., hemolytic anemia, aplastic anemia, pure red cell anemia and idiopathic thrombocytopenia), systemic lupus erythematosus, rheumatoid arthritis, polychondritis, scleroderma, Wegener granulomatosis, dermatomyositis, chronic active hepatitis, myasthenia gravis, Steven-Johnson syndrome, idiopathic sprue, autoimmune inflammatory bowel disease (e.g., ulcerative colitis, Crohn's disease, irritable bowel syndrome, celiac disease, periodontitis, hyaline membrane disease, kidney disease, glomerular disease, alcoholic liver disease, multiple sclerosis, endocrine ophthalmopathy, Grave's disease, sarcoidosis, alveolitis, chronic hypersensitivity pneumonitis, primary biliary cirrhosis, anterior uveitis, posterior uveitis, Sjogren's syndrome, interstitial lung fibrosis, psoriatic arthritis, systemic juvenile idiopathic arthritis, nephritis, vasculitis, diverticulitis, interstitial cystitis, glomerulonephritis (e.g., including idiopathic nephrotic syndrome, minimal change nephropathy), chronic granulomatous disease, endometriosis, leptospirosis renal disease, glaucoma, retinal disease, headache, pain, complex regional pain syndrome, cardiac hypertrophy, muscle wasting, catabolic disorders, obesity, fetal growth retardation, hypercholesterolemia, heart disease, chronic heart failure, mesothelioma, anhidrotic ectodermal dysplasia, Behcet's disease, incontinentia pigmenti, Paget's disease,

pancreatitis, hereditary periodic fever syndrome, asthma, acute lung injury, acute respiratory distress syndrome, eosinophilia, hypersensitivities, anaphylaxis, fibrositis, gastritis, gastroenteritis, nasal sinusitis, silica induced diseases, chronic obstructive pulmonary disease (COPD), cystic fibrosis, acid-induced lung injury, pulmonary hypertension, polyneuropathy, cataracts, muscle inflammation in conjunction with systemic sclerosis, inclusion body myositis, thyroiditis, Addison's disease, lichen planus, appendicitis, atopic dermatitis, allergy, blepharitis, bronchiolitis, bronchitis, bursitis, cervicitis, cholangitis, cholecystitis, chronic graft rejection, colitis, cystitis, dacryoadenitis, dermatitis, juvenile rheumatoid arthritis, encephalitis, endocarditis, endometritis, enteritis, enterocolitis, epicondylitis, epididymitis, fasciitis, Henoch-Schonlein purpura, hepatitis, hidradenitis suppurativa, immunoglobulin A nephropathy, interstitial lung disease, laryngitis, mastitis, meningitis, myelitis myocarditis, myositis, oophoritis, orchitis, osteitis, otitis, parotitis, pericarditis, peritonitis, pharyngitis, pleuritis, phlebitis, pneumonitis, pneumonia, polymyositis, proctitis, prostatitis, pyelonephritis, rhinitis, salpingitis, sinusitis, stomatitis, synovitis, tendonitis, tonsillitis, ulcerative colitis, vulvitis, alopecia areata, erythema multiforma, dermatitis herpetiformis, vitiligo, hypersensitivity angitis, urticaria, bullous pemphigoid, pemphigus vulgaris, pemphigus foliaceus, paraneoplastic pemphigus, epidermolysis bullosa acquisita, acute gout, chronic gout, chronic gouty arthritis, psoriasis, psoriatic arthritis, Cryopyrin Associated Periodic Syndrome (CAPS) and osteoarthritis.

25. Use of the compound according to any one of claims 1 to 19, or a pharmaceutically acceptable salt or a stereoisomer thereof, in the manufacture of a medicament for the treatment of a cancer, an inflammatory disorder, an autoimmune disease, a metabolic disorder, a hereditary disorder, a hormone-related disease, immunodeficiency disorders, a condition associated with cell death, a destructive bone disorder, thrombin-induced platelet aggregation, liver disease and a cardiovascular disorder.

26. The use of claim 25, wherein the cancer is selected from a solid tumor, benign or malignant tumor; carcinoma of the brain, kidney, liver, stomach, vagina, ovaries, gastric tumors, breast, bladder, colon, prostate, pancreas, lung, cervix, testis, skin, bone or thyroid; sarcoma, glioblastoma, neuroblastoma, gastrointestinal cancer, a tumor of the neck and head, an epidermal

hyperproliferation, prostate hyperplasia, a neoplasia, adenoma, adenocarcinoma, keratoacanthoma, epidermoid carcinoma, large cell carcinoma, non-small-cell lung carcinoma, lymphomas, Hodgkins and Non-Hodgkins lymphoma, a mammary carcinoma, follicular carcinoma, papillary carcinoma, seminoma, melanoma, haematological malignancies, leukemia, acute myeloid leukemia (AML), chronic myeloid leukemia (CML), diffuse large B-cell lymphoma (DLBCL), activated B-cell-like DLBCL, chronic lymphocytic leukemia (CLL), chronic lymphocytic lymphoma, primary effusion lymphoma, Burkitt lymphoma, Burkitt leukemia, acute lymphocytic leukemia, B-cell pro lymphocytic leukemia, lymphoplasmacytic lymphoma, Waldenstrom's macroglobulinemia (WM), splenic marginal zone lymphoma, intravascular large B-cell lymphoma, plasmacytoma and multiple myeloma.

27. The compound for use of claim 25, wherein the inflammatory disorder is selected from ocular allergy, conjunctivitis, keratoconjunctivitis sicca, vernal conjunctivitis, allergic rhinitis, autoimmune hematological disorders hemolytic anemia, aplastic anemia, pure red cell anemia and idiopathic thrombocytopenia, systemic lupus erythematosus, rheumatoid arthritis, polychondritis, scleroderma, Wegener granulomatosis, dermatomyositis, chronic active hepatitis, myasthenia gravis, Steven-Johnson syndrome, idiopathic sprue, autoimmune inflammatory bowel disease, ulcerative colitis, Crohn's disease, irritable bowel syndrome, celiac disease, periodontitis, hyaline membrane disease, kidney disease, glomerular disease, alcoholic liver disease, multiple sclerosis, endocrine ophthalmopathy, Grave's disease, sarcoidosis, alveolitis, chronic hypersensitivity pneumonitis, primary biliary cirrhosis, anterior uveitis, posterior uveitis, Sjogren's syndrome, interstitial lung fibrosis, psoriatic arthritis, systemic juvenile idiopathic arthritis, nephritis, vasculitis, diverticulitis, interstitial cystitis, glomerulonephritis, idiopathic nephrotic syndrome, minimal change nephropathy, chronic granulomatous disease, endometriosis, leptospirosis renal disease, glaucoma, retinal disease, headache, pain, complex regional pain syndrome, cardiac hypertrophy, muscle wasting, catabolic disorders, obesity, fetal growth retardation, hypercholesterolemia, heart disease, chronic heart failure, mesothelioma, anhidrotic ectodermal dysplasia, Behcet's disease, incontinentia pigmenti, Paget's disease, pancreatitis, hereditary periodic fever syndrome, asthma, acute lung injury, acute respiratory distress syndrome, eosinophilia, hypersensitivities, anaphylaxis, fibrositis, gastritis,

gastroenteritis, nasal sinusitis, silica induced diseases, chronic obstructive pulmonary disease (COPD), cystic fibrosis, acid-induced lung injury, pulmonary hypertension, polyneuropathy, cataracts, muscle inflammation in conjunction with systemic sclerosis, inclusion body myositis, thyroiditis, Addison's disease, lichen planus, appendicitis, atopic dermatitis, allergy, blepharitis, bronchiolitis, bronchitis, bursitis, cervicitis, cholangitis, cholecystitis, chronic graft rejection, colitis, cystitis, dacryoadenitis, dermatitis, juvenile rheumatoid arthritis, encephalitis, endocarditis, endometritis, enteritis, enterocolitis, epicondylitis, epididymitis, fasciitis, Henoch-Schonlein purpura, hepatitis, hidradenitis suppurativa, immunoglobulin A nephropathy, interstitial lung disease, laryngitis, mastitis, meningitis, myelitis myocarditis, myositis, oophoritis, orchitis, osteitis, otitis, parotitis, pericarditis, peritonitis, pharyngitis, pleuritis, phlebitis, pneumonitis, pneumonia, polymyositis, proctitis, prostatitis, pyelonephritis, rhinitis, salpingitis, sinusitis, stomatitis, synovitis, tendonitis, tonsillitis, ulcerative colitis, vasculitis, vulvitis, alopecia areata, erythema multiforma, dermatitis herpetiformis, vitiligo, hypersensitivity angitis, urticaria, bullous pemphigoid, pemphigus vulgaris, pemphigus foliaceus, paraneoplastic pemphigus, epidermolysis bullosa acquisita, acute gout, chronic gout, chronic gouty arthritis, psoriasis, psoriatic arthritis, Cryopyrin Associated Periodic Syndrome (CAPS) and osteoarthritis.