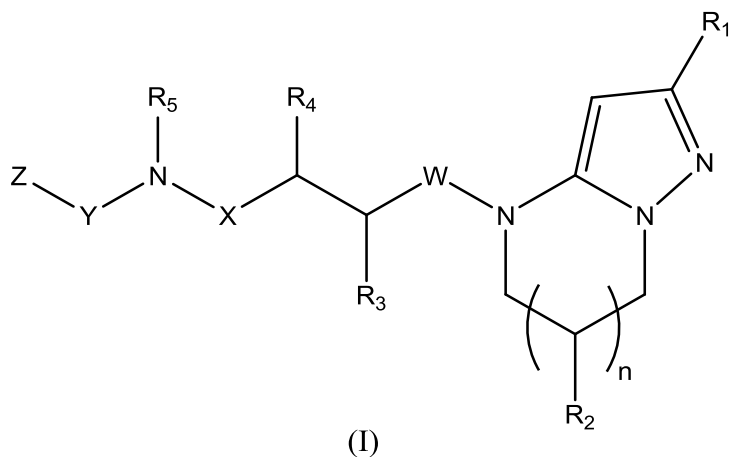


CLAIMS

1. A compound of formula (I),



or a pharmaceutically acceptable salt, solvate or polymorph thereof, including all tautomers and stereoisomers thereof wherein:

R_1 represents H; alkyl, optionally substituted with one or more substituents each independently selected from C_{1-6} alkoxy, NH_2 , $-NHC_{1-3}$ alkyl and $-N(C_{1-3}alkyl)_2$; $-C(O)Oalkyl$; haloalkyl; haloalkoxy; or $-alkylaryl$;

each R_2 independently represents H; alkyl, optionally substituted with one or more substituents each independently selected from C_{1-6} alkoxy, NH_2 , $-NHC_{1-3}$ alkyl and $-N(C_{1-3}alkyl)_2$; $-alkylaryl$; carbocyclyl, optionally substituted with one or more substituents each independently selected from C_{1-6} alkyl, C_{1-6} alkoxy, C_{1-6} haloalkyl, C_{1-6} haloalkoxy and halo; heterocyclyl, optionally substituted with one or more substituents each independently selected from C_{1-6} alkyl, C_{1-6} alkoxy, $-C(O)OC_{1-6}alkyl$, $-C(O)C_{1-6}alkyl$ and $-C(O)NHC_{1-6}alkyl$; $-NHalkyl$; $-N(alkyl)_2$; amino; hydroxyl; alkoxy; or halo;

n represents 0, 1 or 2;

R_3 represents H or alkyl;

R_4 represents H or alkyl;

R_5 represents H or alkyl;

W and X each independently represent C=O; C=S; or CH₂;

Y represents monocyclic aryl or 6-membered monocyclic heteroaryl; said aryl or heteroaryl being optionally substituted by one or more groups each independently selected from alkyl, alkenyl, alkynyl, haloalkyl, -alkoxy, cycloalkyl, alkenyloxy-, alkynyloxy-, alkoxyalkyl-, nitro, halogen, cyano, hydroxyl, oxo, -C(O)-alkyl, C(O)OH, -C(O)Oalkyl, -OC(O)alkyl, -NH₂, -NHalkyl, -N(alkyl)₂, -C(O)NH₂, -C(O)NH(alkyl), -NHC(O)alkyl, -C(NH)NH₂, thioalkyl, -SO₂alkyl, -SOalkyl, -SO₂cycloalkyl and -SOCycloalkyl; and

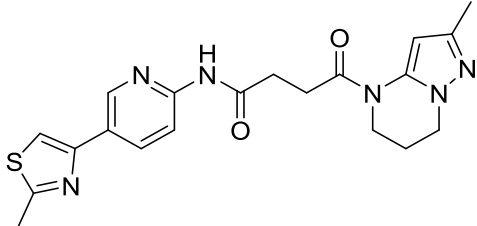
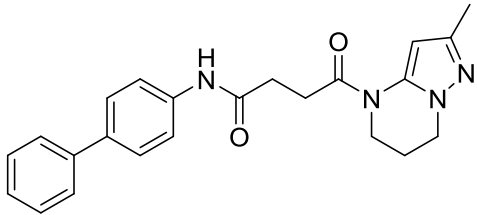
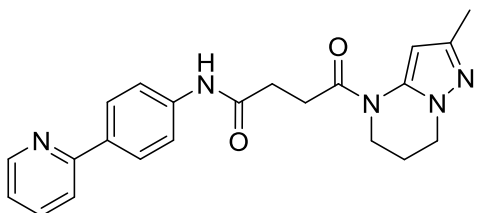
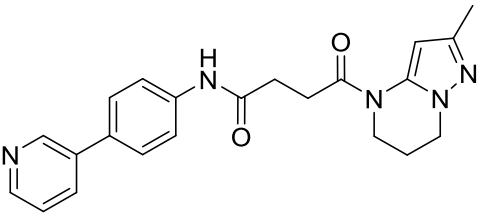
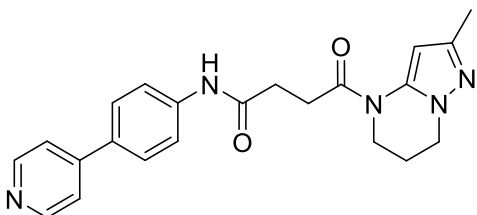
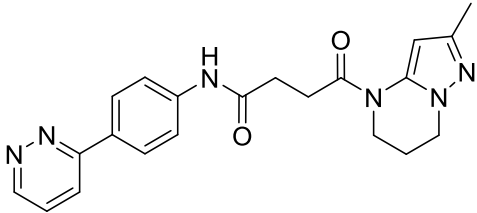
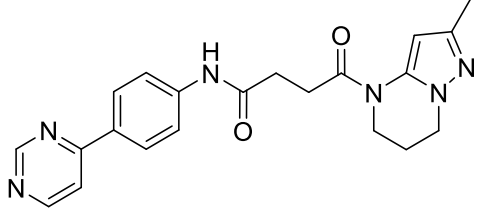
Z represents monocyclic aryl, monocyclic heteroaryl or morpholinylphenyl-; said aryl being optionally substituted by one or more groups each independently selected from alkyl, alkenyl, alkynyl, haloalkyl, -alkoxy, cycloalkyl, alkenyloxy-, alkynyloxy-, alkoxyalkyl-, nitro, halogen, cyano, hydroxyl, oxo, -C(O)-alkyl, C(O)OH, -C(O)Oalkyl, -OC(O)alkyl, -NH₂, -NHalkyl, -N(alkyl)₂, -C(O)NH₂, -C(O)NH(alkyl), -C(O)NMe₂, -NHC(O)alkyl, -C(NH)NH₂, thioalkyl, -SO₂alkyl, -SOalkyl, -SO₂cycloalkyl and -SOCycloalkyl; said heteroaryl being optionally substituted by one or more groups each independently selected from alkyl, alkenyl, alkynyl, haloalkyl, -alkoxy, cycloalkyl, alkenyloxy-, alkynyloxy-, alkoxyalkyl-, nitro, halogen, cyano, hydroxyl, oxo, -C(O)-alkyl, C(O)OH, -C(O)Oalkyl, -OC(O)alkyl, -NH₂, -NHalkyl, -N(alkyl)₂, -C(O)NH₂, -C(O)NH(alkyl), -NHC(O)alkyl, -C(NH)NH₂, thioalkyl, -SO₂alkyl, -SOalkyl, -SO₂cycloalkyl and -SOCycloalkyl.

2. A compound according to claim 1 wherein R₁ represents H, methyl, ethyl, -C(O)OMe or CF₃.
3. A compound according to claim 1 or claim 2 wherein R₁ represents methyl.
4. A compound according to any one of claims 1 to 3 wherein each R₂ independently represents H or alkyl.
5. A compound according to any one of claims 1 to 4 wherein each R₂ represents H.
6. A compound according to any one of claims 1 to 5 wherein n represents 1.
7. A compound according to any one of claims 1 to 6 wherein R₃ represents H.

8. A compound according to any one of claims 1 to 7 wherein R₄ represents H.
9. A compound according to any one of claims 1 to 8 wherein R₅ represents H.
10. A compound according to any one of claims 1 to 9 wherein W and X each represent C=O.
11. A compound according to any one of claims 1 to 10 wherein Y represents monocyclic heteroaryl comprising one, two or three ring heteroatoms including one or two nitrogen atoms; said heteroaryl being optionally substituted by one or more groups each independently selected from alkyl, alkenyl, alkynyl, haloalkyl, -alkoxy, cycloalkyl, alkenyloxy-, alkynyloxy-, alkoxyalkyl-, nitro, halogen, cyano, hydroxyl, oxo, -C(O)-alkyl, C(O)OH, -C(O)Oalkyl, -OC(O)alkyl, -NH₂, -NHalkyl, -N(alkyl)₂, -C(O)NH₂, -C(O)NH(alkyl), -NHC(O)alkyl, -C(NH)NH₂, thioalkyl, -SO₂alkyl, -SOalkyl, -SO₂cycloalkyl and -SOcycloalkyl.
12. A compound according to any one of claims 1 to 10 wherein Y represents phenyl, optionally substituted by one or more groups each independently selected from alkyl, alkenyl, alkynyl, haloalkyl, -alkoxy, cycloalkyl, alkenyloxy-, alkynyloxy-, alkoxyalkyl-, nitro, halogen, cyano, hydroxyl, oxo, -C(O)-alkyl, C(O)OH, -C(O)Oalkyl, -OC(O)alkyl, -NH₂, -NHalkyl, -N(alkyl)₂, -C(O)NH₂, -C(O)NH(alkyl), -NHC(O)alkyl, -C(NH)NH₂, thioalkyl, -SO₂alkyl, -SOalkyl, -SO₂cycloalkyl and -SOcycloalkyl.
13. A compound according to any one of claims 1 to 12 wherein Y is substituted by one or more substituents each independently selected from C₁₋₆alkyl, C₁₋₆alkoxy, halo and C₁₋₆haloalkyl.
14. A compound according to any one of claims 1 to 13 wherein Y is monosubstituted.
15. A compound according to any one of claims 1 to 12 wherein Y is unsubstituted.
16. A compound according to claim 1, which is one of the following compounds:

Cpd ID	Structure	IUPAC Name
--------	-----------	------------

Cpd ID	Structure	IUPAC Name
14		4-(2-methyl-6,7-dihydropyrazolo[1,5-a]pyrimidin-4(5H)-yl)-4-oxo-N-(4'-(trifluoromethyl)-[1,1'-biphenyl]-4-yl)butanamide
24		4-(2-methyl-6,7-dihydropyrazolo[1,5-a]pyrimidin-4(5H)-yl)-N-(4-(oxazol-5-yl)phenyl)-4-oxobutanamide
25		4-(2-methyl-6,7-dihydropyrazolo[1,5-a]pyrimidin-4(5H)-yl)-N-(4-(oxazol-5-yl)phenyl)-4-oxobutanamide
26		4-(2-methyl-6,7-dihydropyrazolo[1,5-a]pyrimidin-4(5H)-yl)-4-oxo-N-(5-(thiazol-2-yl)pyridin-2-yl)butanamide
27		N-(4-(1H-imidazol-1-yl)phenyl)-4-(2-methyl-6,7-dihydropyrazolo[1,5-a]pyrimidin-4(5H)-yl)-4-oxobutanamide
28		4-(2-methyl-6,7-dihydropyrazolo[1,5-a]pyrimidin-4(5H)-yl)-N-(4-(2-methylthiazol-4-yl)phenyl)-4-oxobutanamide
29		N-(4-(1-methyl-1H-pyrazol-5-yl)phenyl)-4-(2-methyl-6,7-dihydropyrazolo[1,5-a]pyrimidin-4(5H)-yl)-4-oxobutanamide

Cpd ID	Structure	IUPAC Name
32		4-(2-methyl-6,7-dihydropyrazolo[1,5-a]pyrimidin-4(5H)-yl)-N-(4-(2-methylthiazol-4-yl)phenyl)-4-oxobutanamide
33		N-([1,1'-biphenyl]-4-yl)-4-(2-methyl-6,7-dihydropyrazolo[1,5-a]pyrimidin-4(5H)-yl)-4-oxobutanamide
34		4-(2-methyl-6,7-dihydropyrazolo[1,5-a]pyrimidin-4(5H)-yl)-4-oxo-N-(4-(pyridin-2-yl)phenyl)butanamide
35		4-(2-methyl-6,7-dihydropyrazolo[1,5-a]pyrimidin-4(5H)-yl)-4-oxo-N-(4-(pyridin-3-yl)phenyl)butanamide
36		4-(2-methyl-6,7-dihydropyrazolo[1,5-a]pyrimidin-4(5H)-yl)-4-oxo-N-(4-(pyridin-4-yl)phenyl)butanamide
37		4-{2-methyl-5H,6H,7H-pyrazolo[1,5-a]pyrimidin-4-yl}-4-oxo-N-[4-(pyridazin-3-yl)phenyl]butanamide
38		4-(2-methyl-6,7-dihydropyrazolo[1,5-a]pyrimidin-4(5H)-yl)-4-oxo-N-(4-(pyrimidin-4-yl)phenyl)butanamide

Cpd ID	Structure	IUPAC Name
39		4-{2-methyl-5H,6H,7H-pyrazolo[1,5-a]pyrimidin-4-yl}-4-oxo-N-[4-(pyrimidin-5-yl)phenyl]butanamide
40		4-{2-methyl-5H,6H,7H-pyrazolo[1,5-a]pyrimidin-4-yl}-4-oxo-N-[4-(pyrimidin-2-yl)phenyl]butanamide
41		N-([2,3'-bipyridin]-6'-yl)-4-(2-methyl-6,7-dihydropyrazolo[1,5-a]pyrimidin-4(5H)-yl)-4-oxobutanamide
42		4-(2-methyl-6,7-dihydropyrazolo[1,5-a]pyrimidin-4(5H)-yl)-4-oxo-N-(4-(pyrazin-2-yl)phenyl)butanamide
43		4-(2-methyl-6,7-dihydropyrazolo[1,5-a]pyrimidin-4(5H)-yl)-4-oxo-N-(6-phenylpyridin-3-yl)butanamide
44		4-(2-methyl-6,7-dihydropyrazolo[1,5-a]pyrimidin-4(5H)-yl)-4-oxo-N-(5-phenylpyridin-2-yl)butanamide
45		4-(2-methyl-6,7-dihydropyrazolo[1,5-a]pyrimidin-4(5H)-yl)-4-oxo-N-(6-phenylpyridazin-3-yl)butanamide

Cpd ID	Structure	IUPAC Name
46		4-{2-methyl-5H,6H,7H-pyrazolo[1,5-a]pyrimidin-4-yl}-4-oxo-N-(5-phenylpyrimidin-2-yl)butanamide
47		4-(2-methyl-6,7-dihydropyrazolo[1,5-a]pyrimidin-4(5H)-yl)-4-oxo-N-(5-phenylpyrazin-2-yl)butanamide
48		N-([2,3'-bipyridin]-5-yl)-4-(2-methyl-6,7-dihydropyrazolo[1,5-a]pyrimidin-4(5H)-yl)-4-oxobutanamide
49		4-{2-methyl-5H,6H,7H-pyrazolo[1,5-a]pyrimidin-4-yl}-4-oxo-N-[5-(pyridin-3-yl)pyridin-2-yl]butanamide
50		4-(2-methyl-6,7-dihydropyrazolo[1,5-a]pyrimidin-4(5H)-yl)-4-oxo-N-(5-(pyrazin-2-yl)pyridin-2-yl)butanamide
51		4-(2-methyl-6,7-dihydropyrazolo[1,5-a]pyrimidin-4(5H)-yl)-4-oxo-N-(6-(pyridin-3-yl)pyridazin-3-yl)butanamide
52		4-(2-methyl-6,7-dihydropyrazolo[1,5-a]pyrimidin-4(5H)-yl)-4-oxo-N-(5-(pyridin-3-yl)pyrazin-2-yl)butanamide

Cpd ID	Structure	IUPAC Name
53		4-(2-methyl-6,7-dihydropyrazolo[1,5-a]pyrimidin-4(5H)-yl)-N-(3-methyl-[1,1'-biphenyl]-4-yl)-4-oxobutanamide
54		4-(2-methyl-6,7-dihydropyrazolo[1,5-a]pyrimidin-4(5H)-yl)-N-(2-methyl-[1,1'-biphenyl]-4-yl)-4-oxobutanamide
55		N-(3-methoxy-[1,1'-biphenyl]-4-yl)-4-(2-methyl-6,7-dihydropyrazolo[1,5-a]pyrimidin-4(5H)-yl)-4-oxobutanamide
56		N-(2-methoxy-[1,1'-biphenyl]-4-yl)-4-(2-methyl-6,7-dihydropyrazolo[1,5-a]pyrimidin-4(5H)-yl)-4-oxobutanamide
57		N-(2-fluorobiphenyl-4-yl)-4-(2-methyl-6,7-dihydropyrazolo[1,5-a]pyrimidin-4(5H)-yl)-4-oxobutanamide
58		4-(2-methyl-6,7-dihydropyrazolo[1,5-a]pyrimidin-4(5H)-yl)-N-(2'-methyl-[1,1'-biphenyl]-4-yl)-4-oxobutanamide
59		4-(2-methyl-6,7-dihydropyrazolo[1,5-a]pyrimidin-4(5H)-yl)-N-(3'-methyl-[1,1'-biphenyl]-4-yl)-4-oxobutanamide

Cpd ID	Structure	IUPAC Name
60		4-(2-methyl-6,7-dihydropyrazolo[1,5-a]pyrimidin-4(5H)-yl)-N-(4'-methyl-[1,1'-biphenyl]-4-yl)-4-oxobutanamide
61		N-(2'-methoxy-[1,1'-biphenyl]-4-yl)-4-(2-methyl-6,7-dihydropyrazolo[1,5-a]pyrimidin-4(5H)-yl)-4-oxobutanamide
62		N-(3'-methoxy-[1,1'-biphenyl]-4-yl)-4-(2-methyl-6,7-dihydropyrazolo[1,5-a]pyrimidin-4(5H)-yl)-4-oxobutanamide
63		N-(4'-methoxy-[1,1'-biphenyl]-4-yl)-4-(2-methyl-6,7-dihydropyrazolo[1,5-a]pyrimidin-4(5H)-yl)-4-oxobutanamide
64		N-(2'-fluoro-[1,1'-biphenyl]-4-yl)-4-(2-methyl-6,7-dihydropyrazolo[1,5-a]pyrimidin-4(5H)-yl)-4-oxobutanamide
65		N-(3'-fluoro-[1,1'-biphenyl]-4-yl)-4-(2-methyl-6,7-dihydropyrazolo[1,5-a]pyrimidin-4(5H)-yl)-4-oxobutanamide
66		N-(4'-fluorobiphenyl-4-yl)-4-(2-methyl-6,7-dihydropyrazolo[1,5-a]pyrimidin-4(5H)-yl)-4-oxobutanamide

Cpd ID	Structure	IUPAC Name
67		4'-(4-(2-methyl-6,7-dihydropyrazolo[1,5-a]pyrimidin-4(5H)-yl)-4-oxobutanamido)-[1,1'-biphenyl]-3-carboxylic acid
68		N,N-dimethyl-4'-(4-(2-methyl-6,7-dihydropyrazolo[1,5-a]pyrimidin-4(5H)-yl)-4-oxobutanamido)-[1,1'-biphenyl]-3-carboxamide
69		N-(2'-amino-[1,1'-biphenyl]-4-yl)-4-(2-methyl-6,7-dihydropyrazolo[1,5-a]pyrimidin-4(5H)-yl)-4-oxobutanamide
70		N-(3'-amino-[1,1'-biphenyl]-4-yl)-4-(2-methyl-6,7-dihydropyrazolo[1,5-a]pyrimidin-4(5H)-yl)-4-oxobutanamide
71		N-(4'-amino-[1,1'-biphenyl]-4-yl)-4-(2-methyl-6,7-dihydropyrazolo[1,5-a]pyrimidin-4(5H)-yl)-4-oxobutanamide
72		N-(3'-(dimethylamino)-[1,1'-biphenyl]-4-yl)-4-(2-methyl-6,7-dihydropyrazolo[1,5-a]pyrimidin-4(5H)-yl)-4-oxobutanamide
73		4-(2-methyl-6,7-dihydropyrazolo[1,5-a]pyrimidin-4(5H)-yl)-N-(3'-morpholinobiphenyl-4-yl)-4-oxobutanamide

Cpd ID	Structure	IUPAC Name
74		N-(3'-acetamido-[1,1'-biphenyl]-4-yl)-4-(2-methyl-6,7-dihydropyrazolo[1,5-a]pyrimidin-4(5H)-yl)-4-oxobutanamide
83		N-(6-(3-chlorophenyl)pyridin-3-yl)-4-(2-methyl-6,7-dihydropyrazolo[1,5-a]pyrimidin-4(5H)-yl)-4-oxobutanamide
84		N-(6-(3-fluorophenyl)pyridin-3-yl)-4-(2-methyl-6,7-dihydropyrazolo[1,5-a]pyrimidin-4(5H)-yl)-4-oxobutanamide
85		4-(2-methyl-6,7-dihydropyrazolo[1,5-a]pyrimidin-4(5H)-yl)-4-oxo-N-(6-(m-tolyl)pyridin-3-yl)butanamide
86		4-(2-methyl-6,7-dihydropyrazolo[1,5-a]pyrimidin-4(5H)-yl)-N-(5-methyl-6-phenylpyridin-3-yl)-4-oxobutanamide
87		N-(6-(4-fluorophenyl)pyridin-3-yl)-4-(2-methyl-6,7-dihydropyrazolo[1,5-a]pyrimidin-4(5H)-yl)-4-oxobutanamide
88		N-(6-(3-chlorophenyl)pyridazin-3-yl)-4-(2-methyl-6,7-dihydropyrazolo[1,5-a]pyrimidin-4(5H)-yl)-4-oxobutanamide

Cpd ID	Structure	IUPAC Name
89		N-(5-(3-fluorophenyl)pyridin-2-yl)-4-(2-methyl-6,7-dihydropyrazolo[1,5-a]pyrimidin-4(5H)-yl)-4-oxobutanamide
90		N-(5-(4-fluorophenyl)pyridin-2-yl)-4-(2-methyl-6,7-dihydropyrazolo[1,5-a]pyrimidin-4(5H)-yl)-4-oxobutanamide
91		N-(3-methyl-5-phenylpyridin-2-yl)-4-(2-methyl-6,7-dihydropyrazolo[1,5-a]pyrimidin-4(5H)-yl)-4-oxobutanamide
92		N-(4-methyl-5-phenylpyridin-2-yl)-4-(2-methyl-6,7-dihydropyrazolo[1,5-a]pyrimidin-4(5H)-yl)-4-oxobutanamide
93		4-(2-methyl-6,7-dihydropyrazolo[1,5-a]pyrimidin-4(5H)-yl)-4-oxo-N-(5-(m-tolyl)pyridin-2-yl)butanamide
94		N-(5-fluoro-2,3'-bipyridin-6'-yl)-4-(2-methyl-6,7-dihydropyrazolo[1,5-a]pyrimidin-4(5H)-yl)-4-oxobutanamide
95		N-(4-fluoro-2,3'-bipyridin-6'-yl)-4-(2-methyl-6,7-dihydropyrazolo[1,5-a]pyrimidin-4(5H)-yl)-4-oxobutanamide

Cpd ID	Structure	IUPAC Name
96		4-(2-methyl-6,7-dihydropyrazolo[1,5-a]pyrimidin-4(5H)-yl)-N-(6-methyl-[2,3'-bipyridin]-6'-yl)-4-oxobutanamide
97		N-(6-(3-chlorophenyl)pyridazin-3-yl)-4-(2-methyl-6,7-dihydropyrazolo[1,5-a]pyrimidin-4(5H)-yl)-4-oxobutanamide
98		N-(6-(3-fluorophenyl)pyridazin-3-yl)-4-(2-methyl-6,7-dihydropyrazolo[1,5-a]pyrimidin-4(5H)-yl)-4-oxobutanamide
99		4-(2-methyl-6,7-dihydropyrazolo[1,5-a]pyrimidin-4(5H)-yl)-4-oxo-N-(6-(m-tolyl)pyridazin-3-yl)butanamide
100		N-[6-(4-chlorophenyl)pyridazin-3-yl]-4-{2-methyl-5H,6H,7H-pyrazolo[1,5-a]pyrimidin-4-yl}-4-oxobutanamide
101		N-(6-(4-fluorophenyl)pyridazin-3-yl)-4-(2-methyl-6,7-dihydropyrazolo[1,5-a]pyrimidin-4(5H)-yl)-4-oxobutanamide
102		N-(6-(5-chloropyridin-3-yl)pyridazin-3-yl)-4-(2-methyl-6,7-dihydropyrazolo[1,5-a]pyrimidin-4(5H)-yl)-4-oxobutanamide

Cpd ID	Structure	IUPAC Name
103		N-(6-(5-fluoropyridin-3-yl)pyridazin-3-yl)-4-(2-methyl-6,7-dihydropyrazolo[1,5-a]pyrimidin-4(5H)-yl)-4-oxobutanamide
104		4-(2-methyl-6,7-dihydropyrazolo[1,5-a]pyrimidin-4(5H)-yl)-N-(6-(5-methylpyridin-3-yl)pyridazin-3-yl)-4-oxobutanamide
105		4-(2-methyl-6,7-dihydropyrazolo[1,5-a]pyrimidin-4(5H)-yl)-4-oxo-N-(6-(5-(trifluoromethyl)pyridin-3-yl)pyridazin-3-yl)butanamide
106		4-(2-methyl-6,7-dihydropyrazolo[1,5-a]pyrimidin-4(5H)-yl)-N-(5-methyl-6-(pyridin-3-yl)pyridazin-3-yl)-4-oxobutanamide
107		4-(2-methyl-6,7-dihydropyrazolo[1,5-a]pyrimidin-4(5H)-yl)-N-(6-(6-methylpyridin-3-yl)pyridazin-3-yl)-4-oxobutanamide
108		N-(5'-chloro-[2,3'-bipyridin]-5-yl)-4-(2-methyl-6,7-dihydropyrazolo[1,5-a]pyrimidin-4(5H)-yl)-4-oxobutanamide
109		N-(5'-fluoro-[2,3'-bipyridin]-5-yl)-4-(2-methyl-6,7-dihydropyrazolo[1,5-a]pyrimidin-4(5H)-yl)-4-oxobutanamide

Cpd ID	Structure	IUPAC Name
110		N-(5'-methyl-2,3'-bipyridin-5-yl)-4-(2-methyl-6,7-dihydropyrazolo[1,5-a]pyrimidin-4(5H)-yl)-4-oxobutanamide
111		N-(3-fluoro-2,3'-bipyridin-5-yl)-4-(2-methyl-6,7-dihydropyrazolo[1,5-a]pyrimidin-4(5H)-yl)-4-oxobutanamide
112		N-(5'-amino-2,3'-bipyridin-5-yl)-4-(2-methyl-6,7-dihydropyrazolo[1,5-a]pyrimidin-4(5H)-yl)-4-oxobutanamide
113		4-(2-methyl-6,7-dihydropyrazolo[1,5-a]pyrimidin-4(5H)-yl)-N-(6'-methyl-[2,3'-bipyridin]-5-yl)-4-oxobutanamide
114		N-(5'-chloro-[3,3'-bipyridin]-6-yl)-4-(2-methyl-6,7-dihydropyrazolo[1,5-a]pyrimidin-4(5H)-yl)-4-oxobutanamide
115		N-(5'-fluoro-[3,3'-bipyridin]-6-yl)-4-(2-methyl-6,7-dihydropyrazolo[1,5-a]pyrimidin-4(5H)-yl)-4-oxobutanamide
116		4-(2-methyl-6,7-dihydropyrazolo[1,5-a]pyrimidin-4(5H)-yl)-N-(5'-methyl-[3,3'-bipyridin]-6-yl)-4-oxobutanamide

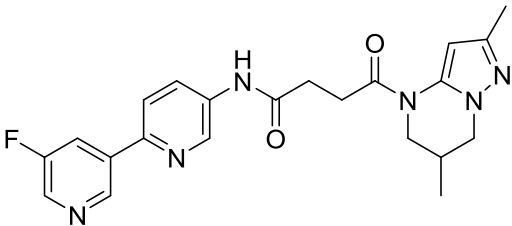
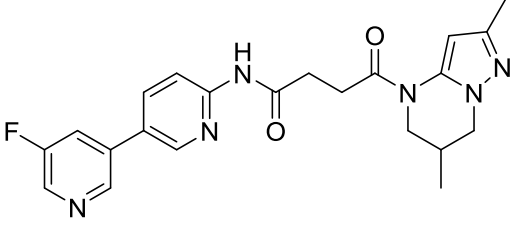
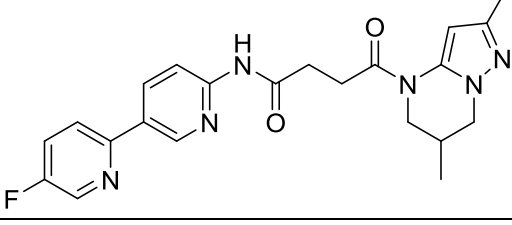
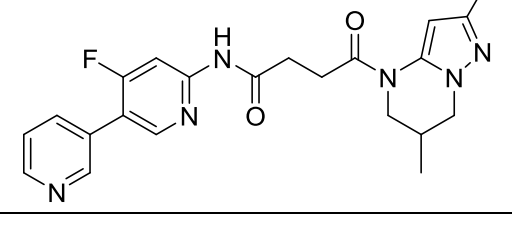
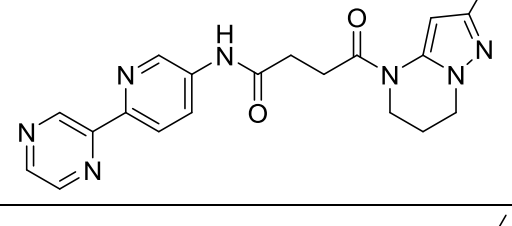
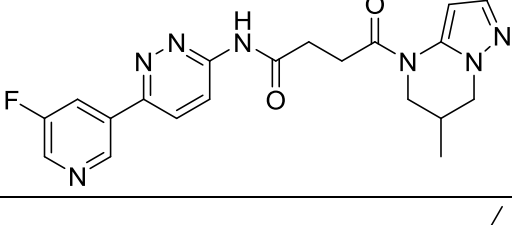
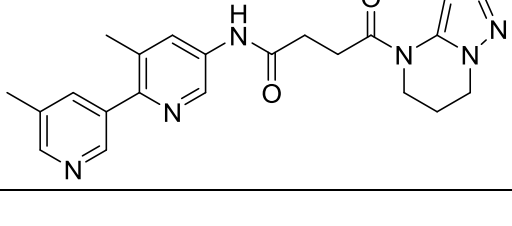
Cpd ID	Structure	IUPAC Name
117		4-(2-methyl-6,7-dihydropyrazolo[1,5-a]pyrimidin-4(5H)-yl)-4-oxo-N-(4-(piperazin-1-yl)phenyl)butanamide
118		4-(2-methyl-6,7-dihydropyrazolo[1,5-a]pyrimidin-4(5H)-yl)-4-oxo-N-(5'-(trifluoromethyl)-[3,3'-bipyridin]-6-yl)butanamide
119		N-(4-methyl-3,3'-bipyridin-6-yl)-4-(2-methyl-6,7-dihydropyrazolo[1,5-a]pyrimidin-4(5H)-yl)-4-oxobutanamide
120		N-(4,5'-dimethyl-3,3'-bipyridin-6-yl)-4-(2-methyl-6,7-dihydropyrazolo[1,5-a]pyrimidin-4(5H)-yl)-4-oxobutanamide
121		N-(6'-methyl-3,3'-bipyridin-6-yl)-4-(2-methyl-6,7-dihydropyrazolo[1,5-a]pyrimidin-4(5H)-yl)-4-oxobutanamide
122		N-(5-(5-fluoropyridin-3-yl)pyrazin-2-yl)-4-(2-methyl-6,7-dihydropyrazolo[1,5-a]pyrimidin-4(5H)-yl)-4-oxobutanamide
123		N-(5-(3-fluorophenyl)pyrazin-2-yl)-4-(2-methyl-6,7-dihydropyrazolo[1,5-a]pyrimidin-4(5H)-yl)-4-oxobutanamide

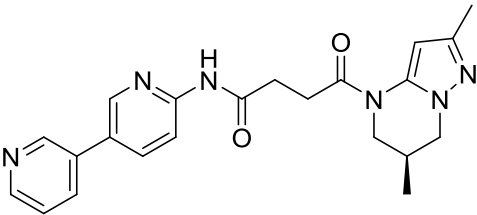
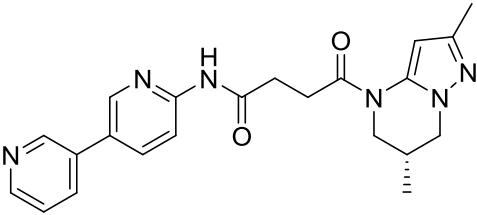
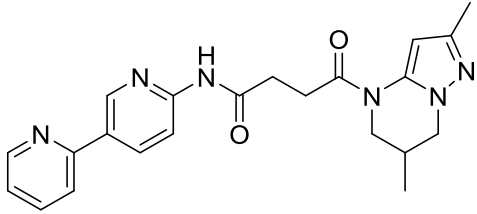
Cpd ID	Structure	IUPAC Name
124		4-(2-methyl-6,7-dihydropyrazolo[1,5-a]pyrimidin-4(5H)-yl)-N-(5-(5-methylpyridin-3-yl)pyrazin-2-yl)-4-oxobutanamide
125		N-(6-methyl-5-(pyridin-3-yl)pyrazin-2-yl)-4-(2-methyl-6,7-dihydropyrazolo[1,5-a]pyrimidin-4(5H)-yl)-4-oxobutanamide
126		4-(2-methyl-6,7-dihydropyrazolo[1,5-a]pyrimidin-4(5H)-yl)-4-oxo-N-(5-(m-tolyl)pyrazin-2-yl)butanamide
127		4-(2-methyl-6,7-dihydropyrazolo[1,5-a]pyrimidin-4(5H)-yl)-N-(5-(6-methylpyridin-3-yl)pyrazin-2-yl)-4-oxobutanamide
128		4-(2-methyl-6,7-dihydropyrazolo[1,5-a]pyrimidin-4(5H)-yl)-N-(5-(6-methylpyrazin-2-yl)pyridin-2-yl)-4-oxobutanamide
129		4-(2-methyl-6,7-dihydropyrazolo[1,5-a]pyrimidin-4(5H)-yl)-4-oxo-N-(4-(pyrazin-2-yl)phenyl)butanamide
139		4-(2,6-dimethyl-6,7-dihydropyrazolo[1,5-a]pyrimidin-4(5H)-yl)-4-oxo-N-(6-phenylpyridazin-3-yl)butanamide

Cpd ID	Structure	IUPAC Name
140		N-(2,3'-bipyridin-5-yl)-4-(2,6-dimethyl-6,7-dihydropyrazolo[1,5-a]pyrimidin-4(5H)-yl)-4-oxobutanamide
141		4-(2,6-dimethyl-6,7-dihydropyrazolo[1,5-a]pyrimidin-4(5H)-yl)-4-oxo-N-(6-(pyridin-3-yl)pyridazin-3-yl)butanamide
142		4-(2,6-dimethyl-6,7-dihydropyrazolo[1,5-a]pyrimidin-4(5H)-yl)-N-(5'-methyl-[3,3'-bipyridin]-6-yl)-4-oxobutanamide
143		4-(2-methyl-6,7-dihydropyrazolo[1,5-a]pyrimidin-4(5H)-yl)-N-(6-methyl-[2,3'-bipyridin]-6'-yl)-4-oxobutanamide
144		4-(2,6-dimethyl-6,7-dihydropyrazolo[1,5-a]pyrimidin-4(5H)-yl)-N-(5'-methyl-[2,3'-bipyridin]-5-yl)-4-oxobutanamide
145		N-([2,3'-bipyridin]-5-yl)-2-methyl-4-(2-methyl-6,7-dihydropyrazolo[1,5-a]pyrimidin-4(5H)-yl)-4-oxobutanamide
146		2-methyl-4-(2-methyl-6,7-dihydropyrazolo[1,5-a]pyrimidin-4(5H)-yl)-4-oxo-N-(6-phenylpyridazin-3-yl)butanamide

Cpd ID	Structure	IUPAC Name
147		N-([3,3'-bipyridin]-6-yl)-2-methyl-4-(2-methyl-6,7-dihydropyrazolo[1,5-a]pyrimidin-4(5H)-yl)-4-oxobutanamide
148		N-(4-methyl-2,3'-bipyridin-6'-yl)-4-(2-methyl-6,7-dihydropyrazolo[1,5-a]pyrimidin-4(5H)-yl)-4-oxobutanamide
149		4-(2-methyl-6,7-dihydropyrazolo[1,5-a]pyrimidin-4(5H)-yl)-N-(5-(5-methylpyrazin-2-yl)pyridin-2-yl)-4-oxobutanamide
150		2-methyl-4-(2-methyl-6,7-dihydropyrazolo[1,5-a]pyrimidin-4(5H)-yl)-N-(5'-(5-methyl-[2,3'-bipyridin]-5-yl)-4-oxobutanamide
151		2-methyl-4-(2-methyl-6,7-dihydropyrazolo[1,5-a]pyrimidin-4(5H)-yl)-N-(5-(6-methylpyrazin-2-yl)pyridin-2-yl)-4-oxobutanamide
152		2-methyl-4-(2-methyl-6,7-dihydropyrazolo[1,5-a]pyrimidin-4(5H)-yl)-N-(5'-(5-methyl-[3,3'-bipyridin]-6-yl)-4-oxobutanamide
153		4-(2-methyl-6,7-dihydropyrazolo[1,5-a]pyrimidin-4(5H)-yl)-4-oxo-N-(5-(pyrimidin-5-yl)pyridin-2-yl)butanamide

Cpd ID	Structure	IUPAC Name
154		4-(2-methyl-6,7-dihydropyrazolo[1,5-a]pyrimidin-4(5H)-yl)-4-oxo-N-(6-(pyrimidin-5-yl)pyridin-3-yl)butanamide
155		N-(2-fluorobiphenyl-4-yl)-4-(2-methyl-6,7-dihydropyrazolo[1,5-a]pyrimidin-4(5H)-yl)-4-oxobutanamide
156		N-(5-fluoro-6-phenylpyridin-3-yl)-4-(2-methyl-6,7-dihydropyrazolo[1,5-a]pyrimidin-4(5H)-yl)-4-oxobutanamide
157		4-(2,6-dimethyl-6,7-dihydropyrazolo[1,5-a]pyrimidin-4(5H)-yl)-N-(5-(6-methylpyrazin-2-yl)pyridin-2-yl)-4-oxobutanamide
158		N-(3-fluoro-5'-methyl-[2,3'-bipyridin]-5-yl)-4-(2-methyl-6,7-dihydropyrazolo[1,5-a]pyrimidin-4(5H)-yl)-4-oxobutanamide
160		(S)-4-(2,6-dimethyl-6,7-dihydropyrazolo[1,5-a]pyrimidin-4(5H)-yl)-N-(5'-methyl-[3,3'-bipyridin]-6-yl)-4-oxobutanamide
161		(R)-4-(2,6-dimethyl-6,7-dihydropyrazolo[1,5-a]pyrimidin-4(5H)-yl)-N-(5'-methyl-[3,3'-bipyridin]-6-yl)-4-oxobutanamide

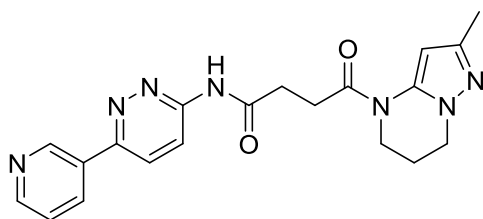
Cpd ID	Structure	IUPAC Name
162		4-(2,6-dimethyl-6,7-dihydropyrazolo[1,5-a]pyrimidin-4(5H)-yl)-N-(5'-fluoro-[2,3'-bipyridin]-5-yl)-4-oxobutanamide
163		4-(2,6-dimethyl-6,7-dihydropyrazolo[1,5-a]pyrimidin-4(5H)-yl)-N-(5'-fluoro-[3,3'-bipyridin]-6-yl)-4-oxobutanamide
164		4-(2,6-dimethyl-6,7-dihydropyrazolo[1,5-a]pyrimidin-4(5H)-yl)-N-(5-fluoro-[2,3'-bipyridin]-6'-yl)-4-oxobutanamide
165		4-(2,6-dimethyl-6,7-dihydropyrazolo[1,5-a]pyrimidin-4(5H)-yl)-N-(4-fluoro-[3,3'-bipyridin]-6-yl)-4-oxobutanamide
166		4-(2-methyl-6,7-dihydropyrazolo[1,5-a]pyrimidin-4(5H)-yl)-4-oxo-N-(6-(pyrazin-2-yl)pyridin-3-yl)butanamide
167		4-(2,6-dimethyl-6,7-dihydropyrazolo[1,5-a]pyrimidin-4(5H)-yl)-N-(6-(5-fluoropyridin-3-yl)pyridazin-3-yl)-4-oxobutanamide
168		N-(3,5'-dimethyl-[2,3'-bipyridin]-5-yl)-4-(2-methyl-6,7-dihydropyrazolo[1,5-a]pyrimidin-4(5H)-yl)-4-oxobutanamide

Cpd ID	Structure	IUPAC Name
169		(S)-N-([3,3'-bipyridin]-6-yl)-4-(2,6-dimethyl-6,7-dihydropyrazolo[1,5-a]pyrimidin-4(5H)-yl)-4-oxobutanamide
170		(R)-N-([3,3'-bipyridin]-6-yl)-4-(2,6-dimethyl-6,7-dihydropyrazolo[1,5-a]pyrimidin-4(5H)-yl)-4-oxobutanamide
171		N-([2,3'-bipyridin]-6'-yl)-4-(2,6-dimethyl-6,7-dihydropyrazolo[1,5-a]pyrimidin-4(5H)-yl)-4-oxobutanamide

or a pharmaceutically acceptable salt, solvate or polymorph thereof, including all tautomers and stereoisomers thereof.

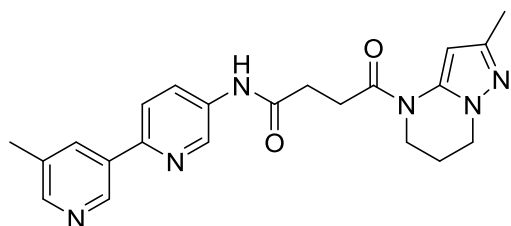
17. A compound according to claim 16, wherein compounds having an IC_{50} against STF3A cells of 10 micromolar or more are excluded.

18. The compound of claim 1 which is 4-(2-methyl-6,7-dihydropyrazolo[1,5-a]pyrimidin-4(5H)-yl)-4-oxo-N-(6-(pyridin-3-yl)pyridazin-3-yl)butanamide:



or a pharmaceutically acceptable salt, solvate or polymorph thereof, including all tautomers and stereoisomers thereof.

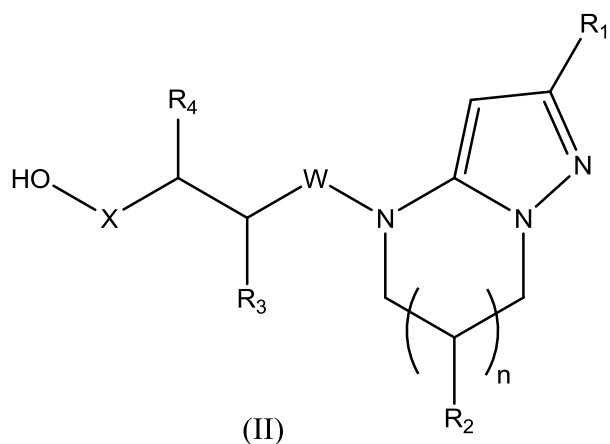
19. The compound of claim 1 which is N-(5'-methyl-2,3'-bipyridin-5-yl)-4-(2-methyl-6,7-dihydropyrazolo[1,5-a]pyrimidin-4(5H)-yl)-4-oxobutanamide:



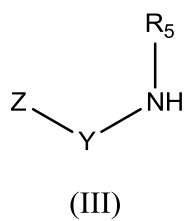
or a pharmaceutically acceptable salt, solvate or polymorph thereof, including all tautomers and stereoisomers thereof.

20. A compound according to any one of claims 1 to 19 for use as a medicament.
21. The compound of any one of claims 1 to 20 having an IC_{50} against HEK293-STF3A cells of less than about 10 micromolar.
22. A pharmaceutical composition comprising a compound according to any one of claims 1 to 21 in combination with one or more therapeutically acceptable adjuvants, diluents or carriers.
23. The compound of any one of claims 1 to 21 for use in the treatment of a disease or condition associated with WNT pathway activity, wherein the disease or condition is selected from the group consisting of cancers, fibrotic diseases, metabolic diseases, degenerative diseases, rheumatoid arthritis, psoriasis and myocardial infarction.
24. Use of a compound according to any one of claims 1 to 21 in the manufacture of a medicament for the treatment of a disease or condition associated with WNT pathway activity, wherein the disease or condition is selected from the group consisting of cancers, fibrotic diseases, metabolic diseases, degenerative diseases, rheumatoid arthritis, psoriasis and myocardial infarction.
25. The compound of claim 23, or use of claim 24 wherein the disease or condition is cervical cancer, colon cancer, breast cancer, bladder cancer, head and neck cancer, gastric cancer, lung cancer, ovarian cancer, prostate cancer, thyroid cancer, non-small-cell lung cancer, chronic lymphocytic leukemia, mesothelioma, melanoma, pancreatic adenocarcinoma, basal cell carcinoma, osteosarcoma, hepatocellular carcinoma, Wilm's tumor, medulloblastoma, pulmonary fibrosis, liver fibrosis, skin fibrosis, renal fibrosis, or diabetic retinopathy.
26. A compound according to any one of claims 1 to 19 and 21 for use in diagnosis.

27. A process for preparation of a compound according to any one of claims 1 to 21, wherein W and X each represent C=O, which process comprises reaction of a compound of formula (II)



wherein R_1 , R_2 , n , R_3 and R_4 are as defined in any one of claims 1 to 21, with a compound of formula (III)



or a protected derivative thereof, wherein R_5 , Y and Z are as defined any one of claims 1 to 21.

28. A process for preparation of a compound according to any one of claims 1 to 9, wherein W and X each represent CH_2 , which process comprises conversion of the W and X groups of compounds of formula (I) from C=O groups into CH_2 groups.

29. A process for preparation of a compound according to any one of claims 1 to 9, wherein W and X each represent C=S, which process comprises conversion of the W and X groups of compounds of formula (I) from C=O groups into C=S groups.