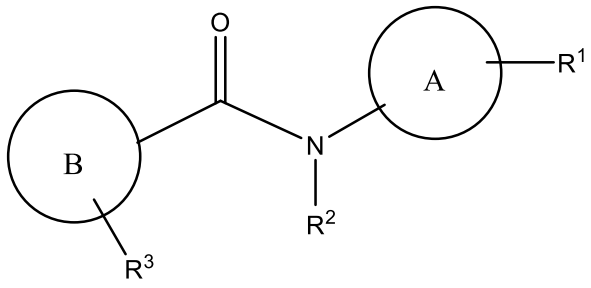
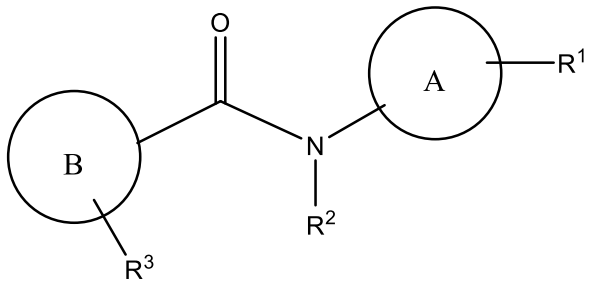


I

and pharmaceutically acceptable salts thereof.

In one aspect there is provided a compound of structural Formula I:



I

or a pharmaceutically acceptable salt thereof, wherein

A is selected from the group consisting of:

(1) pyridine,
(2) pyrimidine,
(3) pyrazine,
(4) indazole,
(5) imidazo[1,2-a]pyridine,
(6) pyrrolo[3,2-c]pyridine,
(7) pyrrolo[2,3-b]pyridine,
(8) pyrazole,
(9) thiophene, and
(10) 1,2,4-oxadiazole,

wherein A is unsubstituted or substituted with one to four substituents selected from R^a;

B is selected from the group consisting of:

(1) pyrazine,
(2) pyridine,
(3) pyrimidine, and

(4) pyridazine,

wherein each B is unsubstituted or substituted with one to three substituents selected from R^b;

R^1 is selected from the group consisting of:

(1) $–SO_2NH_2$,
(2) $–SO_2C_{1-6}$alkyl,
(3) $–SO_2NH-C_{1-6}$alkyl,
(4) $–SO_2C_{3-6}$cycloalkyl,
(5) $–C(O)NH_2$,
(6) $–CO_2H$,
(7) -CN,
(8) halogen,
(9) –OH,
(10) $–OC_{1-6}$alkyl, and
(11) $–C_{1-6}$alkyl,

wherein each alkyl, and cycloalkyl is unsubstituted or substituted with one substituent selected from R^d;

R^2 is selected from the group consisting of:

(1) hydrogen, and
(2) $-C_{1-6}$alkyl;

R^3 is selected from the group consisting of:

(1) cyclohexane,
(2) cycloheptane,
(3) pyrrolidine,
(4) azetidine,
(5) piperidine,
(6) piperazine,
(7) azepane,
(8) morpholine,
(9) thiomorpholine,
(10) oxazepane,
(11) isoindoline,
(12) dihydroisoquinoline,
(13) azabicyclo[2.2.1]heptane,
(14) azabicyclo[3.1.1]heptane,

(15) azabicyclo[4.1.0]heptane,
(16) azabicyclo[3.2.1]octane,
(17) azabicyclo[3.2.0]heptane,
(18) azaspiro[2.5]octane,
(19) dihydrothieno[3,2-c]pyridine,
(20) dihydroimidazo[1,2-a]pyrazine, and
(21) hexahydrofuro[3,2-b]pyrrole,

wherein R^3 is unsubstituted or substituted with one to eight substituents selected from R^c;

each R^a is selected from the group consisting of:

(1) $-C_{1-6}$alkyl,
(2) $-OC_{1-6}$alkyl,
(3) halogen,
(4) -OH,
(5) oxo,
(6) -CN,
(7) $-C_{3-6}$cycloalkyl, and
(8) $-C_{2-5}$cycloheteroalkyl,

wherein each alkyl, cycloalkyl and cycloheteroalkyl is unsubstituted or substituted with one to six substituents selected from halogen, OH, NH_2, $NH(C_{1-6}alkyl)$ and $N(C_{1-6}alkyl)_2$;

each R^b is independently selected from the group consisting of:

(1) $-CF_3$,
(2) $-CHF_2$,
(3) $-OCHF_2$,
(4) $-OCH_2CF_3$,
(5) $-OCF_3$,
(6) CN,
(7) F,
(8) Cl,
(9) Br,
(10) $-CH_3$,
(11) $-C(CH_3)_3$,
(12) $-OCH_3$,
(13) cyclopropyl,
(14) cyclobutyl,
(15) piperidine,

(16) $-CH_2$-cyclopropyl,

(17) $-C_2$alkynyl-cyclopropyl, and

(18) pyrazole,

wherein each R^b is unsubstituted or substituted with one to five substituents selected from R^f;

each R^c is independently selected from the group consisting of:

(1) $-CF_3$,

(2) $-CH_2CF_3$,

(3) $-CHF_2$,

(4) $-OCF_3$,

(5) CN,

(6) halogen,

(7) $-C_{1-6}$alkyl,

(8) oxo,

(9) -OH,

(10) $-C_{1-6}$alkyl-OH,

(11) -O-aryl,

(12) -O-heteroaryl,

(13) aryl,

(14) heteroaryl,

(15) $-C_{1-6}$alkyl-aryl, and

(16) $-C_{1-6}$alkyl-heteroaryl,

wherein each R^c is unsubstituted or substituted with one to five substituents selected from R^g;

R^d is independently selected from the group consisting of:

(1) hydrogen,

(2) halogen,

(3) OH,

(4) oxo,

(5) $-C_{1-6}$alkyl,

(6) $-OC_{1-6}$alkyl,

(7) NH_2,

(8) $NH(C_{1-6}alkyl)$, and

(9) $N(C_{1-6}alkyl)_2$;

each R^e is independently selected from the group consisting of:

(1) hydrogen, and

(2) $-C_{1-6}$alkyl;

each R^f is selected from the group consisting of:

(1) halogen, F
(2) $-C_{1-6}$alkyl,
(3) -OH,
(4) $-OC_{1-6}$alkyl,
(5) $-OC_{3-6}$cycloalkyl,
(6) $-OC_{2-6}$cycloheteroalkyl,
(7) CN,
(8) $-NH_2$,
(9) $-NH(C_{1-6}$alkyl),
(10) $-NH(C_{3-6}$cycloalkyl),
(11) $–NH(C_{2-6}$cycloheteroalkyl),
(12) $–N(C_{1-6}$alkyl$)_2$,
(13) $-N(C_{3-6}$cycloalkyl$)_2$, and
(14) $–N(C_{2-6}$cycloheteroalkyl$)_2$,

wherein each alkyl, cycloalkyl, and cycloheteroalkyl is unsubstituted or substituted with one to three substituents independently selected from: -OH, halogen, cyano, and $–S(O)_2CH_3$;

each R^g is selected from the group consisting of:

(1) halogen,
(2) C_{1-6}alkyl,
(3) -OH,
(4) $-OC_{1-6}$alkyl,
(5) $-S(O)_m-C_{1-6}$alkyl,
(6) -CN,
(7) $-CF_3$,
(8) $-OCHF_2$, and
(9) $-OCF_3$,

wherein each alkyl is unsubstituted or substituted with one to three substituents independently selected from: -OH, halogen, cyano, and $–S(O)_2CH_3$;

each R^h is independently selected from the group consisting of:

(1) hydrogen, and
(2) $-C_{1-6}$alkyl;

each R^i is independently selected from the group consisting of:

(1) hydrogen, and

(2) $-C_{1-6}$alkyl;

each R^j is selected from the group consisting of:

(1) $-C_{1-6}$alkyl,

(2) $-C_{2-6}$alkenyl,

(3) $-C_{3-6}$cycloalkyl,

(4) $-C_{2-6}$cycloheteroalkyl,

(5) aryl, and

(6) heteroaryl,

wherein each alkyl, alkenyl, cycloalkyl, cycloheteroalkyl, aryl and heteroaryl is unsubstituted or substituted with one to three substituents independently selected from: $-C_{1-6}$alkyl,$-C_{3-6}$cycloalkyl, -OH, $-OC_{1-6}$alkyl, $-OC_{3-6}$cycloalkyl, halogen, cyano, and $–S(O)_2CH_3$;

each R^k is selected from the group consisting of:

(1) $-C_{1-6}$alkyl,

(2) $-C_{2-6}$alkenyl,

(3) $-C_{3-6}$cycloalkyl,

(4) $-C_{3-6}$cycloalkyl,

(5) $-C_{2-6}$cycloheteroalkyl,

(6) aryl, and

(7) heteroaryl,

wherein each alkyl, alkenyl, cycloalkyl, cycloheteroalkyl, aryl and heteroaryl is unsubstituted or substituted with one to three substituents independently selected from: $-C_{1-6}$alkyl,$-C_{3-6}$cycloalkyl, -OH, $-OC_{1-6}$alkyl, $-OC_{3-6}$cycloalkyl, halogen, cyano, and $–S(O)_2CH_3$;

each R^L is selected from the group consisting of:

(1) $-C_{1-6}$alkyl,

(2) $-C_{2-6}$alkenyl,

(3) $-C_{3-6}$cycloalkyl,

(4) $-C_{2-6}$cycloheteroalkyl,

(5) aryl, and

(6) heteroaryl,

wherein each alkyl, alkenyl, cycloalkyl, cycloheteroalkyl, aryl and heteroaryl is unsubstituted or substituted with one to three substituents independently selected from: $-C_{1-6}$alkyl,$-C_{3-6}$cycloalkyl, -OH, $-OC_{1-6}$alkyl, $-OC_{3-6}$cycloalkyl, halogen, cyano, and $–S(O)_2CH_3$;

each R^m is independently selected from the group consisting of:

(1) hydrogen, and

(2) $-C_{1-6}$alkyl;

each n is independently 0, 1, 2, 3 or 4;

each m is independently 0, 1 or 2;

each p is independently 0, 1, 2, 3 or 4;

each q is independently 0 or 1; and

each r is independently 0 or 1.

In another aspect, there is provided a compound selected from:

1) 2-(4,4-difluoropiperidin-1-yl)-N-(6-sulfamoylpyrazin-2-yl)-5-(trifluoromethyl)-nicotinamide;
2) 2-(4,4-difluoropiperidin-1-yl)-N-(4-hydroxypyrimidin-2-yl)-5-(trifluoromethyl)-nicotinamide;
3) 5-(2-(4,4-difluoropiperidin-1-yl)-5-(trifluoromethyl)nicotinamido)picolinic acid;
4) 4-(2-(4,4-difluoropiperidin-1-yl)-5-(trifluoromethyl)nicotinamido)picolinic acid;
5) N-(6-cyanopyridin-3-yl)-2-(4,4-difluoropiperidin-1-yl)-5-(trifluoromethyl)nicotinamide**;**
6) 2-(azepan-1-yl)-N-(5-(methylsulfonyl)pyridin-3-yl)-5-(trifluoromethyl)nicotinamide;
7) 2-(3-(hydroxymethyl)piperidin-1-yl)-N-(2-sulfamoylpyridin-4-yl)-5-(trifluoromethyl)-nicotinamide;
8) 2-(azepan-1-yl)-N-(5-carbamoylpyridin-3-yl)-5-(trifluoromethyl)nicotinamide;
9) 2-(4,4-difluoro-1-piperidyl)-6-methyl-N-(5-sulfamoyl-3-pyridyl)pyridine-3-carboxamide;
10) 5-chloro-2-(4,4-difluoro-1-piperidyl)-N-(5-sulfamoyl-3-pyridyl)pyridine-3-carboxamide;
11) 6-chloro-2-(4,4-difluoropiperidin-1-yl)-4-methyl-N-(5-sulfamoylpyridin-3-yl)nicotinamide;
12) 5,6-dicyclopropyl-2-(4,4-difluoropiperidin-1-yl)-N-(2-sulfamoylpyridin-4-yl)nicotinamide;
13) 2-(4,4-difluoroazepan-1-yl)-N-(2-sulfamoylpyridin-4-yl)-5-(trifluoromethyl)nicotinamide**;**
14) 5-cyclopropyl-2-(4,4-difluoropiperidin-1-yl)-6-methyl-N-(2-sulfamoylpyridin-4-yl)nicotinamide;
15) 5-cyclobutyl-2-(4,4-difluoropiperidin-1-yl)-6-methyl-N-(2-sulfamoylpyridin-4-yl)nicotinamide;
16) 5-(cyclopropylethynyl)-2-(4,4-difluoropiperidin-1-yl)-6-methyl-N-(2-sulfamoylpyridin-4-yl)nicotinamide;
17) 2-(4,4-difluoroazepan-1-yl)-6-methyl-N-(2-sulfamoylpyridin-4-yl)nicotinamide;

18) 6-(cyclopropylmethyl)-2-(4,4-difluoroazepan-1-yl)-N-(2-sulfamoylpyridin-4-yl)nicotinamide;
19) 2-(4,4-difluoroazepan-1-yl)-5,6-dimethyl-N-(2-sulfamoylpyridin-4-yl)nicotinamide;
20) 5-cyclopropyl-2-(4,4-difluoropiperidin-1-yl)-N-(2-sulfamoylpyridin-4-yl)-6-(2,2,2-trifluoroethoxy)nicotinamide;
21) 5-chloro-6-cyclopropyl-2-(4,4-difluoroazepan-1-yl)-N-(2-sulfamoylpyridin-4-yl)-nicotinamide;
22) 6-cyclopropyl-2-(4,4-difluoroazepan-1-yl)-N-(2-sulfamoylpyridin-4-yl)nicotinamide;
23) 5-chloro-6-cyclobutyl-2-(4,4-difluoroazepan-1-yl)-N-(2-sulfamoylpyridin-4-yl)-nicotinamide;
24) 6-cyclobutyl-2-(4,4-difluoroazepan-1-yl)-N-(2-sulfamoylpyridin-4-yl)nicotinamide;
25) 2-(5,5-Difluoro-2-oxoazepan-1-yl)-N-(2-sulfamoylpyridin-4-yl)-5-(trifluoromethyl)-nicotinamide;
26) 2-(4,4-difluoropiperidin-1-yl)-N-(2-sulfamoylpyridin-4-yl)nicotinamide;
27) 5-chloro-6-cyclopropyl-2-(4,4-difluoroazepan-1-yl)-N-(2-oxo-1,2-dihydropyridin-4-yl)-nicotinamide;
28) 2-(5,5-Difluoro-2-oxoazepan-1-yl)-N-(2-sulfamoylpyridin-4-yl)-5-(trifluoromethyl)-nicotinamide;
29) 2-(4,4-Dichloropiperidin-1-yl)-N-(2-sulfamoylpyridin-4-yl)-5-(trifluoromethyl)-nicotinamide;
30) 2-(4,4-difluoroazepan-1-yl)-N-[1-(methylsulfonyl)-1H-pyrrolo[2,3-b]pyridin-3-yl]-5-(trifluoromethyl)pyridine-3-carboxamide;
31) 5-chloro-2-(4,4-difluoroazepan-1-yl)-6-methyl-N-[1-(methylsulfonyl)-1H-pyrazol-4-yl]pyridine-3-carboxamide;
32) 5-chloro-2-(4,4-difluoroazepan-1-yl)-4,6-dimethyl-N-[1-(methylsulfonyl)-1H-pyrazol-4-yl]pyridine-3-carboxamide;
33) N-{1-[(2-aminoethyl)sulfonyl]-1H-pyrazol-4-yl}-5-chloro-2-(4,4-difluoroazepan-1-yl)-6-methylpyridine-3-carboxamide;
34) 2-(4,4-difluoroazepan-1-yl)-N-[1-(methylsulfonyl)-1H-indazol-3-yl]-5-(trifluoromethyl)-pyridine-3-carboxamide;
35) 2-(4,4-difluoroazepan-1-yl)-N-[1-(methylsulfonyl)-1H-pyrrolo[3,2-c]pyridin-3-yl]-5-(trifluoromethyl)pyridine-3-carboxamide;
36) N-[1-(cyclopropylsulfonyl)-1H-pyrazol-4-yl]-2-(4,4-difluoroazepan-1-yl)-5-(trifluoro-methyl)pyridine-3-carboxamide;
37) N-[5-cyclopropyl-1-(methylsulfonyl)-1H-pyrazol-4-yl]-2-(4,4-difluoroazepan-1-yl)-5-(trifluoromethyl)pyridine-3-carboxamide;

38) 2-cyclopropyl-4-(4,4-difluoroazepan-1-yl)-N-(2-sulfamoylpyridin-4-yl)pyrimidine-5-carboxamide;

39) 6-cyclopropyl-3-(4,4-difluoroazepan-1-yl)-N-(2-sulfamoylpyridin-4-yl)pyridazine-4-carboxamide;

40) 6-methyl-N-(2-sulfamoylpyridin-4-yl)-2-(3,4,4-trifluoroazepan-1-yl)nicotinamide;

41) 5-chloro-2-(4,4-difluoroazepan-1-yl)-6-methoxy-N-(2-sulfamoylpyridin-4-yl)pyridine-3-carboxamide;

42) N-[2-(tert-butylsulfamoyl)pyridin-4-yl]-5-chloro-2-(4,4-difluoroazepan-1-yl)-6-methoxy-pyridine-3-carboxamide;

43) 5-cyano-2-(4,4-difluoropiperidin-1-yl)-N-(2-sulfamoylpyridin-4-yl)-6-(trifluoromethyl)-nicotinamide;

44) 5-(cyclopropylethynyl)-2-(4,4-difluoropiperidin-1-yl)-N-(2-sulfamoylpyridin-4-yl)-6-(trifluoromethyl)nicotinamide;

45) 2-(azepan-1-yl)-N-(3-cyano-1,2,4-oxadiazol-5-yl)-5-(trifluoromethyl)pyridine-3-carboxamide;

46) 5-(cyclopropylmethyl)-2-(4,4-difluoroazepan-1-yl)-N-(2-sulfamoylpyridin-4-yl)nicotinamide;

47) (S)-2-(4,4-difluoro-3-methylpiperidin-1-yl)-N-(2-sulfamoylpyridin-4-yl)-5-(trifluoro-methyl)nicotinamide;

48) (R)-2-(4,4-difluoro-3-methylpiperidin-1-yl)-N-(2-sulfamoylpyridin-4-yl)-5-(trifluoro-methyl)-nicotinamide;

49) (R)-2-(4,4-dichloro-3-methylpiperidin-1-yl)-N-(2-sulfamoylpyridin-4-yl)-5-(trifluoro-methyl)nicotinamide;

50) (S)-2-(4,4-dichloro-3-methylpiperidin-1-yl)-N-(2-sulfamoylpyridin-4-yl)-5-(trifluoro-methyl)nicotinamide;

51) 2-(4,4-Dichloroazepan-1-yl)-N-(2-sulfamoylpyridin-4-yl)-5-(trifluoromethyl)nicotinamide;

52) 2-[(3S,5R)-4,4-difluoro-3,5-dimethyl-1-piperidyl]-N-(2-sulfamoyl-4-pyridyl)-5-(trifluoromethyl)pyridine-3-carboxamide;

53) 5-chloro-2-[(3S,5R)-4,4-difluoro-3,5-dimethyl-1-piperidyl]-6-methyl-N-(2-sulfamoyl-4-pyridyl)pyridine-3-carboxamide;

54) (S)-5-chloro-2-(4,4-difluoro-3-methylpiperidin-1-yl)-6-methyl-N-(2-sulfamoylpyridin-4-yl)nicotinamide;

55) (R)-5-chloro-2-(4,4-difluoro-3-methylpiperidin-1-yl)-6-methyl-N-(2-sulfamoylpyridin-4-yl)nicotinamide;

56) (S)-2-(3-methylpiperidin-1-yl)-N-(2-sulfamoylpyridin-4-yl)-5-(trifluoromethyl)-nicotinamide;

57) (R)-2-(3-methylpiperidin-1-yl)-N-(2-sulfamoylpyridin-4-yl)-5-(trifluoromethyl)-nicotinamide;

58) N-(2-sulfamoyl-4-pyridyl)-5-(trifluoromethyl)-2-[(1S,5S)-1-(trifluoromethyl)-3-aza-bicyclo[3.2.0]heptan-3-yl]pyridine-3-carboxamide;

59) N-(2-sulfamoyl-4-pyridyl)-5-(trifluoromethyl)-2-[(1R,5R)-1-(trifluoromethyl)-3-aza-bicyclo[3.2.0]heptan-3-yl]pyridine-3-carboxamide;

60) N-(2-sulfamoylpyridin-4-yl)-2-((1R,5S)-6,6,7,7-tetrafluoro-3-azabicyclo[3.2.0]heptan-3-yl)-5-(trifluoromethyl)nicotinamide;

61) 2-[(1S,6S)-7,7-difluoro-6-methyl-3-azabicyclo[4.1.0]heptan-3-yl]-N-(2-sulfamoyl-4-pyridyl)-5-(trifluoromethyl)pyridine-3-carboxamide;

62) 2-[(1R,6R)-7,7-difluoro-6-methyl-3-azabicyclo[4.1.0]heptan-3-yl]-N-(2-sulfamoyl-4-pyridyl)-5-(trifluoromethyl)pyridine-3-carboxamide;

63) 2-((1R,5S)-8,8-difluoro-3-oxaoctan-3-yl)-N-(2-sulfamoylpyridin-4-yl)-5-(trifluoromethyl)nicotinamide;

64) 2-((1R,5S)-6,6-difluoro-3-azabicyclo[3.2.0]heptan-3-yl)-N-(2-sulfamoylpyridin-4-yl)-5-(trifluoromethyl)nicotinamide;

65) 2-((1S,5R)-6,6-difluoro-3-azabicyclo[3.2.0]heptan-3-yl)-N-(2-sulfamoylpyridin-4-yl)-5-(trifluoromethyl)nicotinamide;

66) (R)-2-(1,1-difluoro-5-azaspiro[2.5]octan-5-yl)-N-(2-sulfamoylpyridin-4-yl)-5-(trifluoromethyl)nicotinamide;

67) (S)-2-(1,1-difluoro-5-azaspiro[2.5]octan-5-yl)-N-(2-sulfamoylpyridin-4-yl)-5-(trifluoromethyl)nicotinamide;

68) 2-((1R,5S)-3-azabicyclo[3.2.0]heptan-3-yl)-N-(2-sulfamoylpyridin-4-yl)-5-(trifluoromethyl)nicotinamide;

69) 2-((1S,6S)-7,7-difluoro-3-azabicyclo[4.1.0]heptan-3-yl)-N-(2-sulfamoylpyridin-4-yl)-5-(trifluoromethyl)nicotinamide;

70) 2-((1R,6R)-7,7-difluoro-3-azabicyclo[4.1.0]heptan-3-yl)-N-(2-sulfamoylpyridin-4-yl)-5-(trifluoromethyl)nicotinamide;

71) 2-[(1R,4R)-5,5-difluoro-2-azabicyclo[2.2.1]heptan-2-yl]-N-(2-sulfamoyl-4-pyridyl)-5-(trifluoromethyl)pyridine-3-carboxamide;

72) 2-[(1S,4S)-5,5-difluoro-2-azabicyclo[2.2.1]heptan-2-yl]-N-(2-sulfamoyl-4-pyridyl)-5-(trifluoromethyl)pyridine-3-carboxamide;

73) (R)-2-(4,4-difluoro-2-methylpiperidin-1-yl)-N-(2-sulfamoylpyridin-4-yl)-5-(trifluoromethyl)nicotinamide;

74) (S)-2-(4,4-difluoro-2-methylpiperidin-1-yl)-N-(2-sulfamoylpyridin-4-yl)-5-(trifluoromethyl)nicotinamide;

75) 2-((3R,4s,5S)-4-hydroxy-3,4,5-trimethylpiperidin-1-yl)-N-(2-sulfamoylpyridin-4-yl)-5-(trifluoromethyl)nicotinamide;

76) 2-((1R,5S)-6,6-difluoro-3-azabicyclo[3.1.1]heptan-3-yl)-N-(2-sulfamoylpyridin-4-yl)-5-(trifluoromethyl)nicotinamide;

77) 2-[(3S,4S)-4-hydroxy-3-methyl-1-piperidyl]-N-(2-sulfamoyl-4-pyridyl)-5-(trifluoromethyl)-pyridine-3-carboxamide;

78) 2-[(3S,4r,5R)-4-hydroxy-3,5-dimethyl-1-piperidyl]-N-(2-sulfamoyl-4-pyridyl)-5-(trifluoro-methyl)pyridine-3-carboxamide;

79) 2-(6,7-dihydro-4H-thieno[3,2-c]pyridin-5-yl)-N-(2-sulfamoyl-4-pyridyl)-5-(trifluoro-methyl)pyridine-3-carboxamide;

80) N-(2-sulfamoyl-4-pyridyl)-5-(trifluoromethyl)-2-[3-(trifluoromethyl)-1-piperidyl]pyridine-3-carboxamide;

81) 2-[3-(3,5-difluorophenyl)-1-piperidyl]-N-(2-sulfamoyl-4-pyridyl)-5-(trifluoromethyl)-pyridine-3-carboxamide;

82) N-(2-sulfamoyl-4-pyridyl)-5-(trifluoromethyl)-2-[4-(trifluoromethyl)-1-piperidyl]pyridine-3-carboxamide;

83) N-(2-sulfamoyl-4-pyridyl)-5-(trifluoromethyl)-2-[3-[[4-(trifluoromethyl)phenyl]methyl]-1-piperidyl]pyridine-3-carboxamide;

84) N-(2-sulfamoyl-4-pyridyl)-2-thiomorpholino-5-(trifluoromethyl)pyridine-3-carboxamide;

85) N-(2-sulfamoyl-4-pyridyl)-5-(trifluoromethyl)-2-[3-[4-(trifluoromethyl)phenyl]pyrrolidin-1-yl]pyridine-3-carboxamide;

86) 2-(3-benzyl-6,8-dihydro-5H-imidazo[1,2-a]pyrazin-7-yl)-N-(2-sulfamoyl-4-pyridyl)-5-(trifluoromethyl)pyridine-3-carboxamide;

87) 2-[3,3-dimethyl-4-(2,2,2-trifluoroethyl)piperazin-1-yl]-N-(2-sulfamoyl-4-pyridyl)-5-(trifluoromethyl)pyridine-3-carboxamide;

88) 2-(2,2-dimethylmorpholin-4-yl)-N-(2-sulfamoyl-4-pyridyl)-5-(trifluoromethyl)pyridine-3-carboxamide;

89) N-(2-sulfamoyl-4-pyridyl)-5-(trifluoromethyl)-2-[8-(trifluoromethyl)-3,4-dihydro-1H-isoquinolin-2-yl]pyridine-3-carboxamide;

90) N-(2-sulfamoyl-4-pyridyl)-2-[4-(trifluoromethoxy)isoindolin-2-yl]-5-(trifluoromethyl)-pyridine-3-carboxamide;

91) N-(2-sulfamoyl-4-pyridyl)-5-(trifluoromethyl)-2-[2-[4-(trifluoromethyl)phenyl]morpholin-4-yl]pyridine-3-carboxamide;

92) N-(2-sulfamoyl-4-pyridyl)-2-(3,3,4,4-tetrafluoropyrrolidin-1-yl)-5-(trifluoromethyl)-pyridine-3-carboxamide;

93) N-(2-sulfamoyl-4-pyridyl)-5-(trifluoromethyl)-2-[3-(trifluoromethyl)azetidin-1-yl]pyridine-3-carboxamide;

94) 2-(3-pyrazol-1-ylpyrrolidin-1-yl)-N-(2-sulfamoyl-4-pyridyl)-5-(trifluoromethyl)pyridine-3-carboxamide;

95) 2-[2-(4-fluorophenyl)-1-piperidyl]-N-(2-sulfamoyl-4-pyridyl)-5-(trifluoromethyl)pyridine-3-carboxamide;

96) 2-(2,3,3a,5,6,6a-hexahydrofuro[3,2-b]pyrrol-4-yl)-N-(2-sulfamoyl-4-pyridyl)-5-(trifluoro-methyl)pyridine-3-carboxamide;

97) N-(2-sulfamoyl-4-pyridyl)-5-(trifluoromethyl)-2-[3-[4-(trifluoromethyl)phenoxy]azetidin-1-yl]pyridine-3-carboxamide;

98) N-(2-sulfamoyl-4-pyridyl)-5-(trifluoromethyl)-2-[4-[3-(trifluoromethyl)phenoxy]-1-piperidyl]pyridine-3-carboxamide;

99) 2-[4-(cyclopropylmethyl)-3-oxo-piperazin-1-yl]-N-(2-sulfamoyl-4-pyridyl)-5-(trifluoro-methyl)pyridine-3-carboxamide;

100) N-(2-sulfamoyl-4-pyridyl)-2-[4-(2,2,2-trifluoroethyl)piperazin-1-yl]-5-(trifluoromethyl)-pyridine-3-carboxamide;

101) 5-chloro-2-(4,4-difluoroazepan-1-yl)-N-(2-sulfamoyl-4-pyridyl)pyridine-3-carboxamide;

102) 2-((2R,6S)-2-methyl-6-(trifluoromethyl)morpholino)-N-(2-sulfamoylpyridin-4-yl)-5-(trifluoromethyl)nicotinamide;

103) 2-((2S,6R)-2-methyl-6-(trifluoromethyl)morpholino)-N-(2-sulfamoylpyridin-4-yl)-5-(trifluoromethyl)nicotinamide;

104) (S)-N-(2-sulfamoylpyridin-4-yl)-5-(trifluoromethyl)-2-(2-(trifluoromethyl)-1,4-oxazepan-4-yl)nicotinamide;

105) (R)-N-(2-sulfamoylpyridin-4-yl)-5-(trifluoromethyl)-2-(2-(trifluoromethyl)-1,4-oxazepan-4-yl)nicotinamide;

106) 2-[(2R)-6,6-dimethyl-2-(trifluoromethyl)-1,4-oxazepan-4-yl]-N-(2-sulfamoyl-4-pyridyl)-5-(trifluoromethyl)pyridine-3-carboxamide;

107) 2-(2,2-dimethyl-1,4-oxazepan-4-yl)-N-(2-sulfamoyl-4-pyridyl)-5-(trifluoromethyl)pyridine-3-carboxamide;

108) 2-[(7S)-7-methyl-1,4-oxazepan-4-yl]-N-(2-sulfamoyl-4-pyridyl)-5-(trifluoromethyl)-pyridine-3-carboxamide;

109) N-[2-(tert-butylsulfamoyl)-4-pyridyl]-5-chloro-2-(4,4-difluoroazepan-1-yl)pyridine-3-carboxamide;

110) 2-[(2S)-2-methylmorpholin-4-yl]-N-(2-sulfamoyl-4-pyridyl)-5-(trifluoromethyl)pyridine-3-carboxamide;

111) 2-[(2R)-2-methyl-1,4-oxazepan-4-yl]-N-(2-sulfamoyl-4-pyridyl)-5-(trifluoromethyl)-pyridine-3-carboxamide;

112) 2-(3-hydroxy-3-methyl-1-piperidyl)-N-(2-sulfamoyl-4-pyridyl)-5-(trifluoromethyl)pyridine-3-carboxamide;

113) 2-(6-fluoro-1,1-dimethyl-isoindolin-2-yl)-N-(2-sulfamoyl-4-pyridyl)-5-(trifluoromethyl)-pyridine-3-carboxamide;

114) 2-(azepan-1-yl)-N-(2-methyl-5-sulfamoylthiophen-3-yl)-5-(trifluoromethyl)pyridine-3-carboxamide;

115) 2-(4,4-difluoro-5-methylazepan-1-yl)-N-(2-sulfamoylpyridin-4-yl)-5-(trifluoromethyl)-pyridine-3-carboxamide;

116) 5-chloro-2-[(7R)-7-(difluoromethyl)-1,4-oxazepan-4-yl]-6-methyl-N-(2-sulfamoylpyridin-4-yl)pyridine-3-carboxamide;

117) 5-chloro-2-[(7S)-7-(difluoromethyl)-1,4-oxazepan-4-yl]-6-methyl-N-(2-sulfamoylpyridin-4-yl)pyridine-3-carboxamide;

118) (R)-N-(2-sulfamoylpyridin-4-yl)-5-(trifluoromethyl)-2-(7-(trifluoromethyl)-1,4-oxazepan-4-yl)nicotinamide;

119) (S)-N-(2-sulfamoylpyridin-4-yl)-5-(trifluoromethyl)-2-(7-(trifluoromethyl)-1,4-oxazepan-4-yl)nicotinamide;

120) 2-[(2S,7R)-2-methyl-7-(trifluoromethyl)-1,4-oxazepan-4-yl]-N-(2-sulfamoylpyridin-4-yl)-5-(trifluoromethyl)pyridine-3-carboxamide;

121) 2-((2R,7S)-2-methyl-7-(trifluoromethyl)-1,4-oxazepan-4-yl)-N-(2-sulfamoylpyridin-4-yl)-5-(trifluoromethyl)nicotinamide;

122) 2-((2R,7R)-2-methyl-7-(trifluoromethyl)-1,4-oxazepan-4-yl)-N-(2-sulfamoylpyridin-4-yl)-5-(trifluoromethyl)nicotinamide;

123) 2-((2S,7S)-2-methyl-7-(trifluoromethyl)-1,4-oxazepan-4-yl)-N-(2-sulfamoylpyridin-4-yl)-5-(trifluoromethyl)nicotinamide;

124) (S)-5-chloro-2-(2-(difluoromethyl)morpholino)-6-methyl-N-(2-sulfamoylpyridin-4-yl)-nicotinamide;

125) (R)-5-chloro-2-(2-(difluoromethyl)morpholino)-6-methyl-N-(2-sulfamoylpyridin-4-yl)-nicotinamide;

126) N-(2-sulfamoylpyridin-4-yl)-5-(trifluoromethyl)-2-[(2S)-2-(trifluoromethyl)pyrrolidin-1-yl]pyridine-3-carboxamide;

127) (R)-N-(2-sulfamoylpyridin-4-yl)-5-(trifluoromethyl)-2-(2-(trifluoromethyl)pyrrolidin-1-yl)nicotinamide;

128) N-(2-sulfamoylpyridin-4-yl)-5-(trifluoromethyl)-2-[3-(trifluoromethyl)pyrrolidin-1-yl]pyridine-3-carboxamide;

129) (S)-2-(3-cyanopyrrolidin-1-yl)-N-(2-sulfamoylpyridin-4-yl)-5-(trifluoromethyl)-nicotinamide;

130) (R)-2-(3-cyanopyrrolidin-1-yl)-N-(2-sulfamoylpyridin-4-yl)-5-(trifluoromethyl-)nicotinamide;

131) 2-(4,4-difluoro-3-methylazepan-1-yl)-N-(2-sulfamoylpyridin-4-yl)-5-(trifluoromethyl)-nicotinamide;

132) 2-(4,4-difluoroazepan-1-yl)-N-(2-sulfamoylpyridin-4-yl)-6-(trifluoromethyl)nicotinamide;

133) 2-((2R,6S)-2-ethyl-6-(trifluoromethyl)morpholino)-N-(2-sulfamoylpyridin-4-yl)-5-(trifluoromethyl)nicotinamide;

134) 2-((2S,6R)-2-ethyl-6-(trifluoromethyl)-morpholino)-N-(2-sulfamoylpyridin-4-yl)-5-(trifluoromethyl)nicotinamide;

135) (R)-2-(2,2-dimethyl-6-(trifluoromethyl)morpholino)-N-(2-sulfamoylpyridin-4-yl)-5-(trifluoromethyl)nicotinamide;

136) (S)-2-(2,2-dimethyl-6-(trifluoromethyl)-morpholino)-N-(2-sulfamoylpyridin-4-yl)-5-(trifluoromethyl)nicotinamide;

137) 4-(2-(4,4-difluoroazepan-1-yl)-5-(trifluoromethyl)nicotinamido)picolinamide;

138) 6-chloro-2-(4,4-difluoroazepan-1-yl)-N-(2-sulfamoyl-4-pyridyl)pyridine-3-carboxamide;

139) 2-(azepan-1-yl)-N-(2-sulfamoyl-4-pyridyl)-5-(trifluoromethyl)pyridine-3-carboxamide;

140) 2-(azepan-1-yl)-N-(2-methylsulfonyl-4-pyridyl)-5-(trifluoromethyl)pyridine-3-carboxamide;

141) 2-(azepan-1-yl)-N-(6-sulfamoyl-2-pyridyl)-5-(trifluoromethyl)pyridine-3-carboxamide;

142) 2-(4,4-difluoroazepan-1-yl)-6-methoxy-N-(2-sulfamoylpyridin-4-yl)nicotinamide;

143) N-(2-methoxypyridin-4-yl)-2-(6-azaspiro[2.5]octan-6-yl)-5-(trifluoromethyl)nicotinamide;

144) 2-(4,4-difluoroazepan-1-yl)-N-(5-sulfamoyl-3-pyridyl)-5-(trifluoromethyl)pyridine-3-carboxamide;

145) 2-(azepan-1-yl)-N-(5-sulfamoyl-3-pyridyl)-5-(trifluoromethyl)pyridine-3-carboxamide;

146) 2-(4,4-difluoroazepan-1-yl)-N-(2-methoxy-4-pyridyl)-5-(trifluoromethyl)pyridine-3-carboxamide;

147) 2-((3S,5R)-4,4-difluoro-3,5-dimethylpiperidin-1-yl)-N-(2-(methylsulfonyl)pyridin-4-yl)-5-(trifluoromethyl)nicotinamide;

148) 2-[(3R)-4,4-difluoro-3-methyl-1-piperidyl]-N-(2-methylsulfonyl-4-pyridyl)-5-(trifluoro-methyl)-pyridine-3-carboxamide;

149) 2-[(3S)-4,4-difluoro-3-methyl-1-piperidyl]-N-(2-methylsulfonyl-4-pyridyl)-5-(trifluoro-methyl)-pyridine-3-carboxamide;

150) N-(2-cyano-4-pyridyl)-2-[(3S,5R)-4,4-difluoro-3,5-dimethyl-1-piperidyl]-5-(trifluoro-methyl)-pyridine-3-carboxamide;

151) N-(2-methylsulfonyl-4-pyridyl)-2-[(1R,5S)-6,6,7,7-tetrafluoro-3-azabicyclo[3.2.0]heptan-3-yl]-5-(trifluoromethyl)pyridine-3-carboxamide;

152) 2-[(1R,5S)-3-azabicyclo[3.2.0]heptan-3-yl]-N-(2-methylsulfonyl-4-pyridyl)-5-(trifluoromethyl)pyridine-3-carboxamide;

153) 2-[(1R,5S)-3-azabicyclo[3.2.0]heptan-3-yl]-N-(2-cyano-4-pyridyl)-5-(trifluoromethyl)pyridine-3-carboxamide;

154) (R)-N-(2-cyanopyridin-4-yl)-2-(4,4-difluoro-3-methylpiperidin-1-yl)-5-(trifluoromethyl)-nicotinamide;

155) (S)-N-(2-cyanopyridin-4-yl)-2-(4,4-difluoro-3-methylpiperidin-1-yl)-5-(trifluoromethyl)-nicotinamide;

156) 4-(2-((3S,5R)-4,4-difluoro-3,5-dimethylpiperidin-1-yl)-5-(trifluoromethyl)nicotinamido)-picolinamide;

157) N-(2-carbamoyl-4-pyridyl)-2-[(3S)-4,4-difluoro-3-methyl-1-piperidyl]-5-(trifluoromethyl)-pyridine-3-carboxamide;

158) N-(2-carbamoyl-4-pyridyl)-2-[(3R)-4,4-difluoro-3-methyl-1-piperidyl]-5-(trifluoromethyl)-pyridine-3-carboxamide;

159) 2-(4,4-difluoropiperidin-1-yl)-4-methoxy-N-(2-sulfamoylpyridin-4-yl)nicotinamide;

160) 5-chloro-6-cyclobutyl-2-((2R,6S)-2-methyl-6-(trifluoromethyl)morpholino)-N-(2-sulfamoylpyridin-4-yl)nicotinamide;

161) 5-chloro-6-cyclobutyl-2-((2S,6R)-2-methyl-6-(trifluoromethyl)morpholino)-N-(2-sulfamoylpyridin-4-yl)nicotinamide;

162) (R)-2-(4,4-difluoro-3-methylpiperidin-1-yl)-N-(2-sulfamoylpyridin-4-yl)-6-(trifluoro-methyl)nicotinamide;

163) (S)-2-(4,4-difluoro-3-methylpiperidin-1-yl)-N-(2-sulfamoylpyridin-4-yl)-6-(trifluoro-methyl)nicotinamide;

164) (S)-5-chloro-2-(4,4-difluoro-3-methylpiperidin-1-yl)-N-(2-sulfamoylpyridin-4-yl)-6-(trifluoromethyl)nicotinamide;

165) (R)-5-chloro-2-(4,4-difluoro-3-methylpiperidin-1-yl)-N-(2-sulfamoylpyridin-4-yl)-6-(trifluoromethyl)nicotinamide;

166) 6-cyclobutyl-2-((3S,5R)-4,4-difluoro-3,5-dimethylpiperidin-1-yl)-N-(2-sulfamoylpyridin-4-yl)nicotinamide;

167) 6-cyclobutyl-2-((2R,6S)-2-methyl-6-(trifluoromethyl)morpholino)-N-(2-sulfamoylpyridin-4-yl)nicotinamide;

168) 6-cyclobutyl-2-((2S,6R)-2-methyl-6-(trifluoromethyl)morpholino)-N-(2-sulfamoylpyridin-4-yl)nicotinamide;

169) 5-chloro-6-cyclobutyl-2-((3S,5R)-4,4-difluoro-3,5-dimethylpiperidin-1-yl)-N-(2-sulfamoyl-pyridin-4-yl)nicotinamide;

170) 6-chloro-2-(4,4-difluoropiperidin-1-yl)-4-methyl-N-(2-sulfamoylpyridin-4-yl)nicotinamide;

171) 2-(4,4-difluoroazepan-1-yl)-5-(difluoromethoxy)-N-(2-sulfamoylpyridin-4-yl)nicotinamide;
172) 5-chloro-2-(4,4-difluoroazepan-1-yl)-6-methyl-N-(2-sulfamoylpyridin-4-yl)nicotinamide;
173) 4-(4,4-difluoroazepan-1-yl)-2-methyl-N-(2-sulfamoylpyridin-4-yl)pyrimidine-5-carboxamide;
174) 2-(4,4-difluoroazepan-1-yl)-6-(difluoromethyl)-N-(2-sulfamoylpyridin-4-yl)nicotinamide;
175) 2-(4,4-difluoropiperidin-1-yl)-N-(2-sulfamoylpyridin-4-yl)-5-(trifluoromethyl) nicotinamide;
176) 4-(2-(4,4-difluoropiperidin-1-yl)-5-(trifluoromethyl)nicotinamido)pyridine-2-sulfonic acid;
177) 2-(4,4-difluoroazepan-1-yl)-N-(2-sulfamoylpyridin-4-yl)-5-(trifluoromethoxy)nicotinamide
178) 2-(4,4-difluoropiperidin-1-yl)-5-fluoro-6-methyl-N-(2-sulfamoylpyridin-4-yl)nicotinamide;
179) 3-(4,4-difluoroazepan-1-yl)-N-(2-sulfamoylpyridin-4-yl)-6-(trifluoromethyl)pyridazine-4-carboxamide;
180) 5-(tert-butyl)-2-(4,4-difluoropiperidin-1-yl)-6-methyl-N-(2-sulfamoylpyridin-4-yl)-nicotinamide;
181) 5-cyclopropyl-2-(4,4-difluoropiperidin-1-yl)-N-(2-sulfamoylpyridin-4-yl)-6-(trifluoro-methyl)-nicotinamide;
182) 5-cyclopropyl-2-(4,4-difluoropiperidin-1-yl)-N-(2-sulfamoylpyridin-4-yl)-6-(trifluoro-methoxy)-nicotinamide;
183) 2-(4,4-difluoropiperidin-1-yl)-6-methyl-N-(2-sulfamoylpyridin-4-yl)-5-(2,2,2-trifluoro-ethoxy)-nicotinamide;
184) 2-(4,4-difluoroazepan-1-yl)-6-methyl-N-(2-sulfamoylpyridin-4-yl)-5-(trifluoromethyl)-nicotinamide;
185) 6-cyclopropyl-2-(4,4-difluoroazepan-1-yl)-N-(2-sulfamoylpyridin-4-yl)-5-(trifluoro-methyl)nicotinamide;
186) 2-(azepan-1-yl)-N-(5-fluoropyridin-3-yl)-5-(trifluoromethyl)nicotinamide;
187) 2-(azepan-1-yl)-5-chloro-N-(2-methoxy-4-pyridyl)-4,6-dimethyl-pyridine-3-carboxamide;
188) 2-(azepan-1-yl)-5-chloro-4,6-dimethyl-N-(5-sulfamoyl-3-pyridyl)pyridine-3-carboxamide;
189) 5-chloro-2-(4,4-difluoro-1-piperidyl)-4,6-dimethyl-N-(5-sulfamoyl-3-pyridyl)pyridine-3-carboxamide;

190) 2-(6-azaspiro[2.5]octan-6-yl)-5-chloro-4,6-dimethyl-N-(5-sulfamoyl-3-pyridyl)pyridine-3-carboxamide;
191) 5-chloro-4,6-dimethyl-2-(1-piperidyl)-N-(5-sulfamoyl-3-pyridyl)pyridine-3-carboxamide;
192) 2-(4,4-difluoroazepan-1-yl)-6-methoxy-N-(5-sulfamoyl-3-pyridyl)pyridine-3-carboxamide;
193) 2-(azepan-1-yl)-N-(5-cyano-3-pyridyl)-5-(trifluoromethyl)pyridine-3-carboxamide;
194) 2-(azepan-1-yl)-N-(5-methoxy-3-pyridyl)-5-(trifluoromethyl)pyridine-3-carboxamide;
195) 2-(azepan-1-yl)-N-(5-methyl-3-pyridyl)-5-(trifluoromethyl)pyridine-3-carboxamide;
196) 2-(azepan-1-yl)-N-[5-(hydroxymethyl)-3-pyridyl]-5-(trifluoromethyl)pyridine-3-carboxamide;
197) 2-(azepan-1-yl)-N-(2-cyano-4-pyridyl)-5-(trifluoromethyl)pyridine-3-carboxamide;
198) 2-(azepan-1-yl)-N-(2-ethylsulfonyl-4-pyridyl)-5-(trifluoromethyl)pyridine-3-carboxamide;
199) 2-(azepan-1-yl)-N-(3-bromoimidazo[1,2-a]pyridin-6-yl)-5-(trifluoromethyl)pyridine-3-carboxamide;
200) 2-(azepan-1-yl)-5-(trifluoromethyl)-N-[5-(trifluoromethyl)-3-pyridyl]pyridine-3-carboxamide;
201) 2-(azepan-1-yl)-5-chloro-4,6-dimethyl-N-(2-sulfamoylpyridin-4-yl)nicotinamide;
202) 5-chloro-4,6-dimethyl-2-(6-azaspiro[2.5]octan-6-yl)-N-(2-sulfamoylpyridin-4-yl)nicotinamide;
203) 4-(2-(azepan-1-yl)-5-(trifluoromethyl)nicotinamido)picolinamide;
204) 5-bromo-2-(4,4-difluoropiperidin-1-yl)-N-(2-sulfamoylpyridin-4-yl)nicotinamide;
205) 2-(4,4-difluoropiperidin-1-yl)-5-phenyl-N-(2-sulfamoylpyridin-4-yl)nicotinamide;
206) 2-(4,4-difluoropiperidin-1-yl)-5-(piperidin-1-yl)-N-(2-sulfamoylpyridin-4-yl)nicotinamide;
207) 2-(4,4-difluoropiperidin-1-yl)-5-(1H-pyrazol-1-yl)-N-(2-sulfamoylpyridin-4-yl)-nicotinamide;
208) N-(2-oxo-1,2-dihydropyridin-4-yl)-2-(6-azaspiro[2.5]octan-6-yl)-5-(trifluoromethyl)-nicotinamide;
209) 5-chloro-4,6-dimethyl-N-(2-oxo-1,2-dihydropyridin-4-yl)-2-(6-azaspiro[2.5]octan-6-yl)nicotinamide;
210) 2-(4,4-difluoroazepan-1-yl)-N-(2-oxo-1,2-dihydropyridin-4-yl)-5-(trifluoromethyl)-nicotinamide;
211) 5-chloro-4,6-dimethyl-N-(2-oxo-1,2-dihydropyridin-4-yl)-2-(piperidin-1-yl)nicotinamide;
212) 2-(azepan-1-yl)-N-(2-oxo-1,2-dihydropyridin-4-yl)-5-(trifluoromethyl)nicotinamide; and

213) 2-(azepan-1-yl)-5-chloro-4,6-dimethyl-N-(2-oxo-1,2-dihydropyridin-4-yl)nicotinamide; or a pharmaceutically acceptable salt thereof.

In another aspect, there is provided a compound selected from:

1) 5-chloro-2-(4,4-difluorocyclohexyl)-4,6-dimethyl-N-(2-sulfamoylpyridin-4-yl)nicotinamide;
2) 5-chloro-2-cycloheptyl-4,6-dimethyl-N-(2-sulfamoylpyridin-4-yl)nicotinamide
3) 5-chloro-3-(4,4-difluoroazepan-1-yl)-N-(2-sulfamoylpyridin-4-yl)pyrazine-2-carboxamide;
4) 5-chloro-4,6-dimethyl-2-(4-methylcyclohexyl)-N-(2-sulfamoylpyridin-4-yl)nicotinamide; and
5) 5-chloro-2-(4,4-difluoroazepan-1-yl)-N,4,6-trimethyl-N-(2-sulfamoylpyridin-4-yl)nicotinamide;

or a pharmaceutically acceptable salt thereof.

The compounds of structural formula I, and embodiments thereof, are inhibitors of $Na_v1.8$ sodium ion channel activity (or $Na_v1.8$ inhibitors) and may be useful in the treatment and prevention of diseases, disorders and conditions mediated by $Na_v1.8$ sodium ion channel activity, such as nociception, osteoarthritis, peripheral neuropathy, inherited erythromelalgia, multiple sclerosis, asthma, itch, atopy, allergic or contact dermatitis, renal failure, cholestasis, pruritus, acute itch, chronic itch, migraine, neurodegeneration following ischemia, epilepsy, pain, inflammatory pain, spontaneous pain, acute pain, acute pain due to fractures, musculoskeletal damage, pancreatitis and renal colic, peri-operative pain, post-operative pain, neuropathic pain, postherpetic neuralgia, trigeminal neuralgia, diabetic neuropathy, chronic lower back pain, phantom limb pain, sciatica, pain caused by 2° or 3° burn injury, optic neuritis, pain resulting from cancer and chemotherapy, chronic pelvic pain, pain syndromes, and complex regional pain syndromes. In one example of the present disclosure, the condition, disease or disorder is a pain disorder, an acute pain disorder or chronic pain disorder. In another example of the present disclosure, the condition, disease or disorder is an acute pain disorder.

The present disclosure also relates to pharmaceutical compositions comprising the compounds of the present disclosure and a pharmaceutically acceptable carrier. In another aspect, there is provided a pharmaceutical composition comprising a compound as defined herein, or a pharmaceutically acceptable salt thereof, and a pharmaceutically acceptable carrier.

The present disclosure also relates to methods for the treatment, management, prevention, alleviation, amelioration, suppression or control of disorders, diseases, and conditions that may be responsive to inhibition of $Na_v1.8$ sodium ion channel activity in a subject in need thereof by administering the compounds and pharmaceutical compositions of the present disclosure.

The present disclosure also relates to the use of compounds of the present disclosure for manufacture of a medicament useful in treating diseases, disorders and conditions that may be

responsive to the inhibition of $Na_v1.8$ sodium ion channel activity. In another aspect, there is provided use of a compound as defined herein, or a pharmaceutically acceptable salt thereof, for the manufacture of a medicament for the treatment, prevention or control of a pain disorder, a cough disorder, an acute itch disorder or chronic itch disorder.

In another aspect, there is provided a compound as defined herein, or a pharmaceutically acceptable salt thereof, for use in therapy.

The present disclosure is also concerned with treatment or prevention of these diseases, disorders and conditions by administering the compounds of the present disclosure in combination with a therapeutically effective amount of another agent that may be useful to treat the disease, disorder and condition. The disclosure is further concerned with processes for preparing the compounds of this disclosure.

In another aspect, there is provided a compound selected from:

1) (S)-2-(4,4-difluoro-3-methylpiperidin-1-yl)-N-(2-sulfamoylpyridin-4-yl)-5-(trifluoromethyl)nicotinamide;
2) (R)-2-(4,4-difluoro-3-methylpiperidin-1-yl)-N-(2-sulfamoylpyridin-4-yl)-5-(trifluoromethyl)nicotinamide;
3) 2-(4,4-difluoroazepan-1-yl)-6-methyl-N-(2-sulfamoylpyridin-4-yl)-nicotinamide;
4) 2-(4,4-difluoroazepan-1-yl)-6-methyl-N-(2-sulfamoylpyridin-4-yl)-5-(trifluoromethyl)nicotinamide;
5) 5-chloro-6-cyclobutyl-2-((2R,6S)-2-methyl-6-(trifluoromethyl)morpholino)-N-(2-sulfamoylpyridin-4-yl)nicotinamide;
6) 5-chloro-6-cyclobutyl-2-((2S,6R)-2-methyl-6-(trifluoromethyl)morpholino)-N-(2-sulfamoylpyridin-4-yl)nicotinamide;
7) 5-chloro-2-(4,4-difluoroazepan-1-yl)-6-methyl-N-(2-sulfamoylpyridin-4-yl)nicotinamide;
8) 2-(4,4-difluoroazepan-1-yl)-6-(difluoromethyl)-N-(2-sulfamoylpyridin-4-yl)nicotinamide;
9) 2-(4,4-difluoropiperidin-1-yl)-5-fluoro-6-methyl-N-(2-sulfamoylpyridin-4-yl)nicotinamide;
10) 2-(4,4-difluoropiperidin-1-yl)-N-(2-sulfamoylpyridin-4-yl)-5-(trifluoromethyl) nicotinamide;
11) 5-chloro-6-cyclobutyl-2-((3S,5R)-4,4-difluoro-3,5-dimethylpiperidin-1-yl)-N-(2-sulfamoylpyridin-4-yl)nicotinamide;
12) 4-(2-(4,4-difluoroazepan-1-yl)-5-(trifluoromethyl)nicotinamido)picolinamide;
13) 5-chloro-6-cyclopropyl-2-(4,4-difluoroazepan-1-yl)-N-(2-oxo-1,2-dihydro-pyridin-4-yl)nicotinamide; and

14) 2-(4,4-difluoroazepan-1-yl)-N-(2-sulfamoylpyridin-4-yl)-5-(trifluoromethyl)-nicotinamide;

or a pharmaceutically acceptable salt thereof.

In another aspect, there is provided a compound which is (S)-2-(4,4-difluoro-3-methylpiperidin-1-yl)-N-(2-sulfamoylpyridin-4-yl)-5-(trifluoromethyl)nicotinamide; or a pharmaceutically acceptable salt thereof.

In another aspect, there is provided a compound which is (R)-2-(4,4-difluoro-3-methylpiperidin-1-yl)-N-(2-sulfamoylpyridin-4-yl)-5-(trifluoromethyl)nicotinamide; or a pharmaceutically acceptable salt thereof.

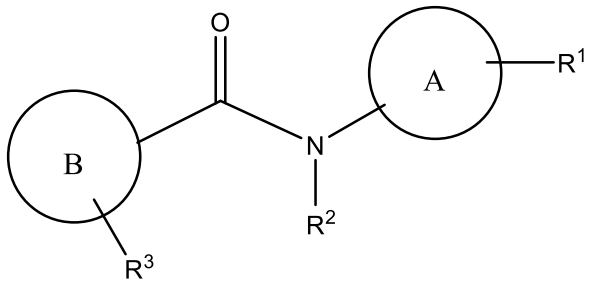
In another aspect, there is provided a compound which is 5-chloro-6-cyclobutyl-2-((2R,6S)-2-methyl-6-(trifluoromethyl)morpholino)-N-(2-sulfamoylpyridin-4-yl)-nicotinamide; or a pharmaceutically acceptable salt thereof.

In another aspect, there is provided a compound which is 2-(4,4-difluoro-piperidin-1-yl)-5-fluoro-6-methyl-N-(2-sulfamoylpyridin-4-yl)nicotinamide; or a pharmaceutically acceptable salt thereof.

In another aspect, there is provided a compound which is 5-chloro-6-cyclopropyl-2-(4,4-difluoroazepan-1-yl)-N-(2-oxo-1,2-dihydropyridin-4-yl)nicotinamide; or a pharmaceutically acceptable salt thereof.

WHAT IS CLAIMED IS:

1. A compound of structural Formula I:



I

or a pharmaceutically acceptable salt thereof, wherein

A is selected from the group consisting of:

(1) pyridine,
(2) pyrimidine,
(3) pyrazine,
(4) indazole,
(5) imidazo[1,2-a]pyridine,
(6) pyrrolo[3,2-c]pyridine,
(7) pyrrolo[2,3-b]pyridine,
(8) pyrazole,
(9) thiophene, and
(10) 1,2,4-oxadiazole,

wherein A is unsubstituted or substituted with one to four substituents selected from R^a;

B is selected from the group consisting of:

(1) pyrazine,
(2) pyridine,
(3) pyrimidine, and
(4) pyridazine,

wherein each B is unsubstituted or substituted with one to three substituents selected from R^b;

R^1 is selected from the group consisting of:

(1) $–SO_2NH_2$,
(2) $–SO_2C_{1-6}$alkyl,
(3) $–SO_2NH-C_{1-6}$alkyl,

(4) $–SO_2C_{3-6}$cycloalkyl,
(5) $–C(O)NH_2$,
(6) $–CO_2H$,
(7) -CN,
(8) halogen,
(9) –OH,
(10) $–OC_{1-6}$alkyl, and
(11) $–C_{1-6}$alkyl,

wherein each alkyl, and cycloalkyl is unsubstituted or substituted with one substituent selected from R^d;

R^2 is selected from the group consisting of:
(1) hydrogen, and
(2) $-C_{1-6}$alkyl;

R^3 is selected from the group consisting of:
(1) cyclohexane,
(2) cycloheptane,
(3) pyrrolidine,
(4) azetidine,
(5) piperidine,
(6) piperazine,
(7) azepane,
(8) morpholine,
(9) thiomorpholine,
(10) oxazepane,
(11) isoindoline,
(12) dihydroisoquinoline,
(13) azabicyclo[2.2.1]heptane,
(14) azabicyclo[3.1.1]heptane,
(15) azabicyclo[4.1.0]heptane,
(16) azabicyclo[3.2.1]octane,
(17) azabicyclo[3.2.0]heptane,
(18) azaspiro[2.5]octane,
(19) dihydrothieno[3,2-c]pyridine,
(20) dihydroimidazo[1,2-a]pyrazine, and
(21) hexahydrofuro[3,2-b]pyrrole,

wherein R^3 is unsubstituted or substituted with one to eight substituents selected from R^c;

each R^a is selected from the group consisting of:

(1) $-C_{1-6}$alkyl,
(2) $-OC_{1-6}$alkyl,
(3) halogen,
(4) -OH,
(5) oxo,
(6) -CN,
(7) $-C_{3-6}$cycloalkyl, and
(8) $-C_{2-5}$cycloheteroalkyl,

wherein each alkyl, cycloalkyl and cycloheteroalkyl is unsubstituted or substituted with one to six substituents selected from halogen, OH, NH_2, $NH(C_{1-6}alkyl)$ and $N(C_{1-6}alkyl)_2$;

each R^b is independently selected from the group consisting of:

(1) $-CF_3$,
(2) $-CHF_2$,
(3) $-OCHF_2$,
(4) $-OCH_2CF_3$,
(5) $-OCF_3$,
(6) CN,
(7) F,
(8) Cl,
(9) Br,
(10) $-CH_3$,
(11) $-C(CH_3)_3$,
(12) $-OCH_3$,
(13) cyclopropyl,
(14) cyclobutyl,
(15) piperidine,
(16) $-CH_2$-cyclopropyl,
(17) $-C_2$alkynyl-cyclopropyl, and
(18) pyrazole,

wherein each R^b is unsubstituted or substituted with one to five substituents selected from R^f;

each R^c is independently selected from the group consisting of:

(1) $-CF_3$,

(2) $-CH_2CF_3$,
(3) $-CHF_2$,
(4) $-OCF_3$,
(5) CN,
(6) halogen,
(7) $-C_{1-6}$alkyl,
(8) oxo,
(9) -OH,
(10) $-C_{1-6}$alkyl-OH,
(11) -O-aryl,
(12) -O-heteroaryl,
(13) aryl,
(14) heteroaryl,
(15) $-C_{1-6}$alkyl-aryl, and
(16) $-C_{1-6}$alkyl-heteroaryl,

wherein each R^c is unsubstituted or substituted with one to five substituents selected from R^g;

R^d is independently selected from the group consisting of:
(1) hydrogen,
(2) halogen,
(3) OH,
(4) oxo,
(5) $-C_{1-6}$alkyl,
(6) $-OC_{1-6}$alkyl,
(7) NH_2,
(8) $NH(C_{1-6}alkyl)$, and
(9) $N(C_{1-6}alkyl)_2$;

each R^e is independently selected from the group consisting of:
(1) hydrogen, and
(2) $-C_{1-6}$alkyl;

each R^f is selected from the group consisting of:
(1) halogen, F
(2) $-C_{1-6}$alkyl,
(3) -OH,
(4) $-OC_{1-6}$alkyl,

(5) $-OC_{3-6}$cycloalkyl,
(6) $-OC_{2-6}$cycloheteroalkyl,
(7) CN,
(8) $-NH_2$,
(9) $-NH(C_{1-6}alkyl)$,
(10) $-NH(C_{3-6}cycloalkyl)$,
(11) $–NH(C_{2-6}cycloheteroalkyl)$,
(12) $–N(C_{1-6}alkyl)_2$,
(13) $-N(C_{3-6}cycloalkyl)_2$, and
(14) $–N(C_{2-6}cycloheteroalkyl)_2$,

wherein each alkyl, cycloalkyl, and cycloheteroalkyl is unsubstituted or substituted with one to three substituents independently selected from: -OH, halogen, cyano, and $–S(O)_2CH_3$;

each R^g is selected from the group consisting of:
(1) halogen,
(2) C_{1-6}alkyl,
(3) -OH,
(4) $-OC_{1-6}$alkyl,
(5) $-S(O)_m-C_{1-6}$alkyl,
(6) -CN,
(7) $-CF_3$,
(8) $-OCHF_2$, and
(9) $-OCF_3$,

wherein each alkyl is unsubstituted or substituted with one to three substituents independently selected from: -OH, halogen, cyano, and $–S(O)_2CH_3$;

each R^h is independently selected from the group consisting of:
(1) hydrogen, and
(2) $-C_{1-6}$alkyl;

each R^i is independently selected from the group consisting of:
(1) hydrogen, and
(2) $-C_{1-6}$alkyl;

each R^j is selected from the group consisting of:
(1) $-C_{1-6}$alkyl,
(2) $-C_{2-6}$alkenyl,

(3) -C_{3-6}cycloalkyl,

(4) -C_{2-6}cycloheteroalkyl,

(5) aryl, and

(6) heteroaryl,

wherein each alkyl, alkenyl, cycloalkyl, cycloheteroalkyl, aryl and heteroaryl is unsubstituted or substituted with one to three substituents independently selected from: -C_{1-6}alkyl,-C_{3-6}cycloalkyl, -OH, -OC_{1-6}alkyl, -OC_{3-6}cycloalkyl, halogen, cyano, and –$S(O)_2CH_3$;

each R^k is selected from the group consisting of:

(1) -C_{1-6}alkyl,

(2) -C_{2-6}alkenyl,

(3) -C_{3-6}cycloalkyl,

(4) -C_{3-6}cycloalkyl,

(5) -C_{2-6}cycloheteroalkyl,

(6) aryl, and

(7) heteroaryl,

wherein each alkyl, alkenyl, cycloalkyl, cycloheteroalkyl, aryl and heteroaryl is unsubstituted or substituted with one to three substituents independently selected from: -C_{1-6}alkyl,-C_{3-6}cycloalkyl, -OH, -OC_{1-6}alkyl, -OC_{3-6}cycloalkyl, halogen, cyano, and –$S(O)_2CH_3$;

each R^L is selected from the group consisting of:

(1) -C_{1-6}alkyl,

(2) -C_{2-6}alkenyl,

(3) -C_{3-6}cycloalkyl,

(4) -C_{2-6}cycloheteroalkyl,

(5) aryl, and

(6) heteroaryl,

wherein each alkyl, alkenyl, cycloalkyl, cycloheteroalkyl, aryl and heteroaryl is unsubstituted or substituted with one to three substituents independently selected from: -C_{1-6}alkyl,-C_{3-6}cycloalkyl, -OH, -OC_{1-6}alkyl, -OC_{3-6}cycloalkyl, halogen, cyano, and –$S(O)_2CH_3$;

each R^m is independently selected from the group consisting of:

(1) hydrogen, and

(2) -C_{1-6}alkyl;

each n is independently 0, 1, 2, 3 or 4;

each m is independently 0, 1 or 2;

each p is independently 0, 1, 2, 3 or 4;
each q is independently 0 or 1; and
each r is independently 0 or 1.

2. The compound according to Claim 1 wherein R^2 is hydrogen; or a pharmaceutically acceptable salt thereof.

3. The compound according to Claim 1 wherein A is pyridine, wherein pyridine is unsubstituted or substituted with one to three substituents selected from R^a; or a pharmaceutically acceptable salt thereof.

4. The compound according to Claim 1 wherein B is selected from the group consisting of:

(1) pyridine,
(2) pyrimidine, and
(3) pyridazine,

wherein each B is unsubstituted or substituted with one to three substituents selected from R^b; or a pharmaceutically acceptable salt thereof.

5. The compound according to Claim 1 wherein B is pyridine, wherein pyridine is unsubstituted or substituted with one to three substituents selected from R^b; or a pharmaceutically acceptable salt thereof.

6. The compound according to Claim 1 wherein R^1 is selected from the group consisting of:

(1) $–SO_2NH_2$,
(2) $–C(O)NH_2$, and
(3) –OH;

or a pharmaceutically acceptable salt thereof.

7. The compound according to Claim 1 wherein R^3 is selected from the group consisting of:

(1) pyrrolidine,
(2) azetidine,
(3) piperidine,
(4) piperazine,
(5) azepane,

(6) morpholine,
(7) thiomorpholine,
(8) oxazepane,
(9) isoindoline,
(10) dihydroisoquinoline,
(11) azabicyclo[2.2.1]heptane,
(12) azabicyclo[3.1.1]heptane,
(13) azabicyclo[4.1.0]heptane,
(14) azabicyclo[3.2.1]octane,
(15) azabicyclo[3.2.0]heptane,
(16) azaspiro[2.5]octane,
(17) dihydrothieno[3,2-c]pyridine,
(18) dihydroimidazo[1,2-a]pyrazine, and
(19) hexahydrofuro[3,2-b]pyrrole,

wherein R^3 is unsubstituted or substituted with one to eight substituents selected from R^c; or a pharmaceutically acceptable salt thereof.

8. The compound according to Claim 1 wherein R^3 is selected from the group consisting of:

(1) piperidine,
(2) azepane, and
(3) morpholine,

wherein R^3 is unsubstituted or substituted with one to six substituents selected from R^c; or a pharmaceutically acceptable salt thereof.

9. The compound according to Claim 1 wherein

A is selected from the group consisting of:

(1) pyridine,
(2) pyrimidine,
(3) pyrazine,
(4) indazole,
(5) imidazo[1,2-a]pyridine,
(6) pyrrolo[3,2-c]pyridine,
(7) pyrrolo[2,3-b]pyridine,
(8) pyrazole,
(9) thiophene, and

(10) 1,2,4-oxadiazole,

wherein A is unsubstituted or substituted with one to four substituents selected from R^a;

B is selected from the group consisting of:

(1) pyridine,

(2) pyrimidine, and

(3) pyridazine,

wherein each B is unsubstituted or substituted with one to four substituents selected from R^b;

R^1 is selected from the group consisting of:

(1) $–SO_3H$,

(2) $–SO_2NH_2$,

(3) $–SO_2C_{1-6}$alkyl,

(4) $–SO_2NH-C_{1-6}$alkyl,

(5) $–SO_2C_{3-6}$cycloalkyl,

(6) $–C(O)NH_2$,

(7) $–CO_2H$,

(8) -CN,

(9) halogen,

(10) –OH,

(11) $–OC_{1-6}$alkyl, and

(12) $–C_{1-6}$alkyl,

wherein each alkyl, and cycloalkyl is unsubstituted or substituted with one substituent selected from R^d;

R^2 is hydrogen;

R^3 is selected from the group consisting of:

(1) pyrrolidine,

(2) azetidine,

(3) piperidine,

(4) piperazine,

(5) azepane,

(6) morpholine,

(7) thiomorpholine,

(8) oxazepane,

(9) isoindoline,

(10) dihydroisoquinoline,

(11) azabicyclo[2.2.1]heptane,
(12) azabicyclo[3.1.1]heptane,
(13) azabicyclo[4.1.0]heptane,
(14) azabicyclo[3.2.1]octane,
(15) azabicyclo[3.2.0]heptane,
(16) azaspiro[2.5]octane,
(17) dihydrothieno[3,2-c]pyridine,
(18) dihydroimidazo[1,2-a]pyrazine, and
(19) hexahydrofuro[3,2-b]pyrrole,

wherein R^3 is unsubstituted or substituted with one to eight substituents selected from R^c; or a pharmaceutically acceptable salt thereof.

10. The compound according to Claim 1 wherein

A is pyridine, wherein pyridine is unsubstituted or substituted with one to three substituents selected from R^a;
B is pyridine, wherein pyridine is unsubstituted or substituted with one to three substituents selected from R^b;
R^1 is selected from the group consisting of:
(1) $–SO_2NH_2$,
(2) $–C(O)NH_2$, and
(3) –OH;
R^2 is hydrogen;
R^3 is selected from the group consisting of:
(1) piperidine,
(2) azepane, and
(3) morpholine,
wherein R^3 is unsubstituted or substituted with one to six substituents selected from R^c; or a pharmaceutically acceptable salt thereof.

11. A compound selected from:

1) 2-(4,4-difluoropiperidin-1-yl)-N-(6-sulfamoylpyrazin-2-yl)-5-(trifluoromethyl)-nicotinamide;
2) 2-(4,4-difluoropiperidin-1-yl)-N-(4-hydroxypyrimidin-2-yl)-5-(trifluoromethyl)-nicotinamide;
3) 5-(2-(4,4-difluoropiperidin-1-yl)-5-(trifluoromethyl)nicotinamido)picolinic acid;
4) 4-(2-(4,4-difluoropiperidin-1-yl)-5-(trifluoromethyl)nicotinamido)picolinic acid;

5) N-(6-cyanopyridin-3-yl)-2-(4,4-difluoropiperidin-1-yl)-5-(trifluoromethyl)nicotinamide**;**
6) 2-(azepan-1-yl)-N-(5-(methylsulfonyl)pyridin-3-yl)-5-(trifluoromethyl)nicotinamide;
7) 2-(3-(hydroxymethyl)piperidin-1-yl)-N-(2-sulfamoylpyridin-4-yl)-5-(trifluoromethyl)-nicotinamide;
8) 2-(azepan-1-yl)-N-(5-carbamoylpyridin-3-yl)-5-(trifluoromethyl)nicotinamide;
9) 2-(4,4-difluoro-1-piperidyl)-6-methyl-N-(5-sulfamoyl-3-pyridyl)pyridine-3-carboxamide;
10) 5-chloro-2-(4,4-difluoro-1-piperidyl)-N-(5-sulfamoyl-3-pyridyl)pyridine-3-carboxamide;
11) 6-chloro-2-(4,4-difluoropiperidin-1-yl)-4-methyl-N-(5-sulfamoylpyridin-3-yl)nicotinamide;
12) 5,6-dicyclopropyl-2-(4,4-difluoropiperidin-1-yl)-N-(2-sulfamoylpyridin-4-yl)nicotinamide;
13) 2-(4,4-difluoroazepan-1-yl)-N-(2-sulfamoylpyridin-4-yl)-5-(trifluoromethyl)nicotinamide**;**
14) 5-cyclopropyl-2-(4,4-difluoropiperidin-1-yl)-6-methyl-N-(2-sulfamoylpyridin-4-yl)nicotinamide;
15) 5-cyclobutyl-2-(4,4-difluoropiperidin-1-yl)-6-methyl-N-(2-sulfamoylpyridin-4-yl)nicotinamide;
16) 5-(cyclopropylethynyl)-2-(4,4-difluoropiperidin-1-yl)-6-methyl-N-(2-sulfamoylpyridin-4-yl)nicotinamide;
17) 2-(4,4-difluoroazepan-1-yl)-6-methyl-N-(2-sulfamoylpyridin-4-yl)nicotinamide;
18) 6-(cyclopropylmethyl)-2-(4,4-difluoroazepan-1-yl)-N-(2-sulfamoylpyridin-4-yl)nicotinamide;
19) 2-(4,4-difluoroazepan-1-yl)-5,6-dimethyl-N-(2-sulfamoylpyridin-4-yl)nicotinamide;
20) 5-cyclopropyl-2-(4,4-difluoropiperidin-1-yl)-N-(2-sulfamoylpyridin-4-yl)-6-(2,2,2-trifluoroethoxy)nicotinamide;
21) 5-chloro-6-cyclopropyl-2-(4,4-difluoroazepan-1-yl)-N-(2-sulfamoylpyridin-4-yl)-nicotinamide;
22) 6-cyclopropyl-2-(4,4-difluoroazepan-1-yl)-N-(2-sulfamoylpyridin-4-yl)nicotinamide;
23) 5-chloro-6-cyclobutyl-2-(4,4-difluoroazepan-1-yl)-N-(2-sulfamoylpyridin-4-yl)-nicotinamide;
24) 6-cyclobutyl-2-(4,4-difluoroazepan-1-yl)-N-(2-sulfamoylpyridin-4-yl)nicotinamide;
25) 2-(5,5-Difluoro-2-oxoazepan-1-yl)-N-(2-sulfamoylpyridin-4-yl)-5-(trifluoromethyl)-nicotinamide;
26) 2-(4,4-difluoropiperidin-1-yl)-N-(2-sulfamoylpyridin-4-yl)nicotinamide;
27) 5-chloro-6-cyclopropyl-2-(4,4-difluoroazepan-1-yl)-N-(2-oxo-1,2-dihydropyridin-4-yl)-nicotinamide;

28) 2-(5,5-Difluoro-2-oxoazepan-1-yl)-N-(2-sulfamoylpyridin-4-yl)-5-(trifluoromethyl)-nicotinamide;

29) 2-(4,4-Dichloropiperidin-1-yl)-N-(2-sulfamoylpyridin-4-yl)-5-(trifluoromethyl)-nicotinamide;

30) 2-(4,4-difluoroazepan-1-yl)-N-[1-(methylsulfonyl)-1H-pyrrolo[2,3-b]pyridin-3-yl]-5-(trifluoromethyl)pyridine-3-carboxamide;

31) 5-chloro-2-(4,4-difluoroazepan-1-yl)-6-methyl-N-[1-(methylsulfonyl)-1H-pyrazol-4-yl]pyridine-3-carboxamide;

32) 5-chloro-2-(4,4-difluoroazepan-1-yl)-4,6-dimethyl-N-[1-(methylsulfonyl)-1H-pyrazol-4-yl]pyridine-3-carboxamide;

33) N-{1-[(2-aminoethyl)sulfonyl]-1H-pyrazol-4-yl}-5-chloro-2-(4,4-difluoroazepan-1-yl)-6-methylpyridine-3-carboxamide;

34) 2-(4,4-difluoroazepan-1-yl)-N-[1-(methylsulfonyl)-1H-indazol-3-yl]-5-(trifluoromethyl)-pyridine-3-carboxamide;

35) 2-(4,4-difluoroazepan-1-yl)-N-[1-(methylsulfonyl)-1H-pyrrolo[3,2-c]pyridin-3-yl]-5-(trifluoromethyl)pyridine-3-carboxamide;

36) N-[1-(cyclopropylsulfonyl)-1H-pyrazol-4-yl]-2-(4,4-difluoroazepan-1-yl)-5-(trifluoro-methyl)pyridine-3-carboxamide;

37) N-[5-cyclopropyl-1-(methylsulfonyl)-1H-pyrazol-4-yl]-2-(4,4-difluoroazepan-1-yl)-5-(trifluoromethyl)pyridine-3-carboxamide;

38) 2-cyclopropyl-4-(4,4-difluoroazepan-1-yl)-N-(2-sulfamoylpyridin-4-yl)pyrimidine-5-carboxamide;

39) 6-cyclopropyl-3-(4,4-difluoroazepan-1-yl)-N-(2-sulfamoylpyridin-4-yl)pyridazine-4-carboxamide;

40) 6-methyl-N-(2-sulfamoylpyridin-4-yl)-2-(3,4,4-trifluoroazepan-1-yl)nicotinamide;

41) 5-chloro-2-(4,4-difluoroazepan-1-yl)-6-methoxy-N-(2-sulfamoylpyridin-4-yl)pyridine-3-carboxamide;

42) N-[2-(tert-butylsulfamoyl)pyridin-4-yl]-5-chloro-2-(4,4-difluoroazepan-1-yl)-6-methoxy-pyridine-3-carboxamide;

43) 5-cyano-2-(4,4-difluoropiperidin-1-yl)-N-(2-sulfamoylpyridin-4-yl)-6-(trifluoromethyl)-nicotinamide;

44) 5-(cyclopropylethynyl)-2-(4,4-difluoropiperidin-1-yl)-N-(2-sulfamoylpyridin-4-yl)-6-(trifluoromethyl)nicotinamide;

45) 2-(azepan-1-yl)-N-(3-cyano-1,2,4-oxadiazol-5-yl)-5-(trifluoromethyl)pyridine-3-carboxamide;

46) 5-(cyclopropylmethyl)-2-(4,4-difluoroazepan-1-yl)-N-(2-sulfamoylpyridin-4-yl)nicotinamide;

47) (S)-2-(4,4-difluoro-3-methylpiperidin-1-yl)-N-(2-sulfamoylpyridin-4-yl)-5-(trifluoro-methyl)nicotinamide;

48) (R)-2-(4,4-difluoro-3-methylpiperidin-1-yl)-N-(2-sulfamoylpyridin-4-yl)-5-(trifluoro-methyl)-nicotinamide;

49) (R)-2-(4,4-dichloro-3-methylpiperidin-1-yl)-N-(2-sulfamoylpyridin-4-yl)-5-(trifluoro-methyl)nicotinamide;

50) (S)-2-(4,4-dichloro-3-methylpiperidin-1-yl)-N-(2-sulfamoylpyridin-4-yl)-5-(trifluoro-methyl)nicotinamide;

51) 2-(4,4-Dichloroazepan-1-yl)-N-(2-sulfamoylpyridin-4-yl)-5-(trifluoromethyl)nicotinamide;

52) 2-[(3S,5R)-4,4-difluoro-3,5-dimethyl-1-piperidyl]-N-(2-sulfamoyl-4-pyridyl)-5-(trifluoromethyl)pyridine-3-carboxamide;

53) 5-chloro-2-[(3S,5R)-4,4-difluoro-3,5-dimethyl-1-piperidyl]-6-methyl-N-(2-sulfamoyl-4-pyridyl)pyridine-3-carboxamide;

54) (S)-5-chloro-2-(4,4-difluoro-3-methylpiperidin-1-yl)-6-methyl-N-(2-sulfamoylpyridin-4-yl)nicotinamide;

55) (R)-5-chloro-2-(4,4-difluoro-3-methylpiperidin-1-yl)-6-methyl-N-(2-sulfamoylpyridin-4-yl)nicotinamide;

56) (S)-2-(3-methylpiperidin-1-yl)-N-(2-sulfamoylpyridin-4-yl)-5-(trifluoromethyl)-nicotinamide;

57) (R)-2-(3-methylpiperidin-1-yl)-N-(2-sulfamoylpyridin-4-yl)-5-(trifluoromethyl)-nicotinamide;

58) N-(2-sulfamoyl-4-pyridyl)-5-(trifluoromethyl)-2-[(1S,5S)-1-(trifluoromethyl)-3-aza-bicyclo[3.2.0]heptan-3-yl]pyridine-3-carboxamide;

59) N-(2-sulfamoyl-4-pyridyl)-5-(trifluoromethyl)-2-[(1R,5R)-1-(trifluoromethyl)-3-aza-bicyclo[3.2.0]heptan-3-yl]pyridine-3-carboxamide;

60) N-(2-sulfamoylpyridin-4-yl)-2-((1R,5S)-6,6,7,7-tetrafluoro-3-azabicyclo[3.2.0]heptan-3-yl)-5-(trifluoromethyl)nicotinamide;

61) 2-[(1S,6S)-7,7-difluoro-6-methyl-3-azabicyclo[4.1.0]heptan-3-yl]-N-(2-sulfamoyl-4-pyridyl)-5-(trifluoromethyl)pyridine-3-carboxamide;

62) 2-[(1R,6R)-7,7-difluoro-6-methyl-3-azabicyclo[4.1.0]heptan-3-yl]-N-(2-sulfamoyl-4-pyridyl)-5-(trifluoromethyl)pyridine-3-carboxamide;

63) 2-((1R,5S)-8,8-difluoro-3-oxaoctan-3-yl)-N-(2-sulfamoylpyridin-4-yl)-5-(trifluoromethyl)nicotinamide;

64) 2-((1R,5S)-6,6-difluoro-3-azabicyclo[3.2.0]heptan-3-yl)-N-(2-sulfamoylpyridin-4-yl)-5-(trifluoromethyl)nicotinamide;

65) 2-((1S,5R)-6,6-difluoro-3-azabicyclo[3.2.0]heptan-3-yl)-N-(2-sulfamoylpyridin-4-yl)-5-(trifluoromethyl)nicotinamide;

66) (R)-2-(1,1-difluoro-5-azaspiro[2.5]octan-5-yl)-N-(2-sulfamoylpyridin-4-yl)-5-(trifluoromethyl)nicotinamide;

67) (S)-2-(1,1-difluoro-5-azaspiro[2.5]octan-5-yl)-N-(2-sulfamoylpyridin-4-yl)-5-(trifluoromethyl)nicotinamide;

68) 2-((1R,5S)-3-azabicyclo[3.2.0]heptan-3-yl)-N-(2-sulfamoylpyridin-4-yl)-5-(trifluoromethyl)nicotinamide;

69) 2-((1S,6S)-7,7-difluoro-3-azabicyclo[4.1.0]heptan-3-yl)-N-(2-sulfamoylpyridin-4-yl)-5-(trifluoromethyl)nicotinamide;

70) 2-((1R,6R)-7,7-difluoro-3-azabicyclo[4.1.0]heptan-3-yl)-N-(2-sulfamoylpyridin-4-yl)-5-(trifluoromethyl)nicotinamide;

71) 2-[(1R,4R)-5,5-difluoro-2-azabicyclo[2.2.1]heptan-2-yl]-N-(2-sulfamoyl-4-pyridyl)-5-(trifluoromethyl)pyridine-3-carboxamide;

72) 2-[(1S,4S)-5,5-difluoro-2-azabicyclo[2.2.1]heptan-2-yl]-N-(2-sulfamoyl-4-pyridyl)-5-(trifluoromethyl)pyridine-3-carboxamide;

73) (R)-2-(4,4-difluoro-2-methylpiperidin-1-yl)-N-(2-sulfamoylpyridin-4-yl)-5-(trifluoromethyl)nicotinamide;

74) (S)-2-(4,4-difluoro-2-methylpiperidin-1-yl)-N-(2-sulfamoylpyridin-4-yl)-5-(trifluoromethyl)nicotinamide;

75) 2-((3R,4s,5S)-4-hydroxy-3,4,5-trimethylpiperidin-1-yl)-N-(2-sulfamoylpyridin-4-yl)-5-(trifluoromethyl)nicotinamide;

76) 2-((1R,5S)-6,6-difluoro-3-azabicyclo[3.1.1]heptan-3-yl)-N-(2-sulfamoylpyridin-4-yl)-5-(trifluoromethyl)nicotinamide;

77) 2-[(3S,4S)-4-hydroxy-3-methyl-1-piperidyl]-N-(2-sulfamoyl-4-pyridyl)-5-(trifluoromethyl)-pyridine-3-carboxamide;

78) 2-[(3S,4r,5R)-4-hydroxy-3,5-dimethyl-1-piperidyl]-N-(2-sulfamoyl-4-pyridyl)-5-(trifluoro-methyl)pyridine-3-carboxamide;

79) 2-(6,7-dihydro-4H-thieno[3,2-c]pyridin-5-yl)-N-(2-sulfamoyl-4-pyridyl)-5-(trifluoro-methyl)pyridine-3-carboxamide;

80) N-(2-sulfamoyl-4-pyridyl)-5-(trifluoromethyl)-2-[3-(trifluoromethyl)-1-piperidyl]pyridine-3-carboxamide;

81) 2-[3-(3,5-difluorophenyl)-1-piperidyl]-N-(2-sulfamoyl-4-pyridyl)-5-(trifluoromethyl)-pyridine-3-carboxamide;

82) N-(2-sulfamoyl-4-pyridyl)-5-(trifluoromethyl)-2-[4-(trifluoromethyl)-1-piperidyl]pyridine-3-carboxamide;

83) N-(2-sulfamoyl-4-pyridyl)-5-(trifluoromethyl)-2-[3-[[4-(trifluoromethyl)phenyl]methyl]-1-piperidyl]pyridine-3-carboxamide;

84) N-(2-sulfamoyl-4-pyridyl)-2-thiomorpholino-5-(trifluoromethyl)pyridine-3-carboxamide;

85) N-(2-sulfamoyl-4-pyridyl)-5-(trifluoromethyl)-2-[3-[4-(trifluoromethyl)phenyl]pyrrolidin-1-yl]pyridine-3-carboxamide;

86) 2-(3-benzyl-6,8-dihydro-5H-imidazo[1,2-a]pyrazin-7-yl)-N-(2-sulfamoyl-4-pyridyl)-5-(trifluoromethyl)pyridine-3-carboxamide;

87) 2-[3,3-dimethyl-4-(2,2,2-trifluoroethyl)piperazin-1-yl]-N-(2-sulfamoyl-4-pyridyl)-5-(trifluoromethyl)pyridine-3-carboxamide;

88) 2-(2,2-dimethylmorpholin-4-yl)-N-(2-sulfamoyl-4-pyridyl)-5-(trifluoromethyl)pyridine-3-carboxamide;

89) N-(2-sulfamoyl-4-pyridyl)-5-(trifluoromethyl)-2-[8-(trifluoromethyl)-3,4-dihydro-1H-isoquinolin-2-yl]pyridine-3-carboxamide;

90) N-(2-sulfamoyl-4-pyridyl)-2-[4-(trifluoromethoxy)isoindolin-2-yl]-5-(trifluoromethyl)-pyridine-3-carboxamide;

91) N-(2-sulfamoyl-4-pyridyl)-5-(trifluoromethyl)-2-[2-[4-(trifluoromethyl)phenyl]morpholin-4-yl]pyridine-3-carboxamide;

92) N-(2-sulfamoyl-4-pyridyl)-2-(3,3,4,4-tetrafluoropyrrolidin-1-yl)-5-(trifluoromethyl)-pyridine-3-carboxamide;

93) N-(2-sulfamoyl-4-pyridyl)-5-(trifluoromethyl)-2-[3-(trifluoromethyl)azetidin-1-yl]pyridine-3-carboxamide;

94) 2-(3-pyrazol-1-ylpyrrolidin-1-yl)-N-(2-sulfamoyl-4-pyridyl)-5-(trifluoromethyl)pyridine-3-carboxamide;

95) 2-[2-(4-fluorophenyl)-1-piperidyl]-N-(2-sulfamoyl-4-pyridyl)-5-(trifluoromethyl)pyridine-3-carboxamide;

96) 2-(2,3,3a,5,6,6a-hexahydrofuro[3,2-b]pyrrol-4-yl)-N-(2-sulfamoyl-4-pyridyl)-5-(trifluoro-methyl)pyridine-3-carboxamide;

97) N-(2-sulfamoyl-4-pyridyl)-5-(trifluoromethyl)-2-[3-[4-(trifluoromethyl)phenoxy]azetidin-1-yl]pyridine-3-carboxamide;

98) N-(2-sulfamoyl-4-pyridyl)-5-(trifluoromethyl)-2-[4-[3-(trifluoromethyl)phenoxy]-1-piperidyl]pyridine-3-carboxamide;

99) 2-[4-(cyclopropylmethyl)-3-oxo-piperazin-1-yl]-N-(2-sulfamoyl-4-pyridyl)-5-(trifluoro-methyl)pyridine-3-carboxamide;

100) N-(2-sulfamoyl-4-pyridyl)-2-[4-(2,2,2-trifluoroethyl)piperazin-1-yl]-5-(trifluoromethyl)-pyridine-3-carboxamide;

101) 5-chloro-2-(4,4-difluoroazepan-1-yl)-N-(2-sulfamoyl-4-pyridyl)pyridine-3-carboxamide;

102) 2-((2R,6S)-2-methyl-6-(trifluoromethyl)morpholino)-N-(2-sulfamoylpyridin-4-yl)-5-(trifluoromethyl)nicotinamide;

103) 2-((2S,6R)-2-methyl-6-(trifluoromethyl)morpholino)-N-(2-sulfamoylpyridin-4-yl)-5-(trifluoromethyl)nicotinamide;

104) (S)-N-(2-sulfamoylpyridin-4-yl)-5-(trifluoromethyl)-2-(2-(trifluoromethyl)-1,4-oxazepan-4-yl)nicotinamide;

105) (R)-N-(2-sulfamoylpyridin-4-yl)-5-(trifluoromethyl)-2-(2-(trifluoromethyl)-1,4-oxazepan-4-yl)nicotinamide;

106) 2-[(2R)-6,6-dimethyl-2-(trifluoromethyl)-1,4-oxazepan-4-yl]-N-(2-sulfamoyl-4-pyridyl)-5-(trifluoromethyl)pyridine-3-carboxamide;

107) 2-(2,2-dimethyl-1,4-oxazepan-4-yl)-N-(2-sulfamoyl-4-pyridyl)-5-(trifluoromethyl)pyridine-3-carboxamide;

108) 2-[(7S)-7-methyl-1,4-oxazepan-4-yl]-N-(2-sulfamoyl-4-pyridyl)-5-(trifluoromethyl)-pyridine-3-carboxamide;

109) N-[2-(tert-butylsulfamoyl)-4-pyridyl]-5-chloro-2-(4,4-difluoroazepan-1-yl)pyridine-3-carboxamide;

110) 2-[(2S)-2-methylmorpholin-4-yl]-N-(2-sulfamoyl-4-pyridyl)-5-(trifluoromethyl)pyridine-3-carboxamide;

111) 2-[(2R)-2-methyl-1,4-oxazepan-4-yl]-N-(2-sulfamoyl-4-pyridyl)-5-(trifluoromethyl)-pyridine-3-carboxamide;

112) 2-(3-hydroxy-3-methyl-1-piperidyl)-N-(2-sulfamoyl-4-pyridyl)-5-(trifluoromethyl)pyridine-3-carboxamide;

113) 2-(6-fluoro-1,1-dimethyl-isoindolin-2-yl)-N-(2-sulfamoyl-4-pyridyl)-5-(trifluoromethyl)-pyridine-3-carboxamide;

114) 2-(azepan-1-yl)-N-(2-methyl-5-sulfamoylthiophen-3-yl)-5-(trifluoromethyl)pyridine-3-carboxamide;

115) 2-(4,4-difluoro-5-methylazepan-1-yl)-N-(2-sulfamoylpyridin-4-yl)-5-(trifluoromethyl)-pyridine-3-carboxamide;

116) 5-chloro-2-[(7R)-7-(difluoromethyl)-1,4-oxazepan-4-yl]-6-methyl-N-(2-sulfamoylpyridin-4-yl)pyridine-3-carboxamide;

117) 5-chloro-2-[(7S)-7-(difluoromethyl)-1,4-oxazepan-4-yl]-6-methyl-N-(2-sulfamoylpyridin-4-yl)pyridine-3-carboxamide;

118) (R)-N-(2-sulfamoylpyridin-4-yl)-5-(trifluoromethyl)-2-(7-(trifluoromethyl)-1,4-oxazepan-4-yl)nicotinamide;

119) (S)-N-(2-sulfamoylpyridin-4-yl)-5-(trifluoromethyl)-2-(7-(trifluoromethyl)-1,4-oxazepan-4-yl)nicotinamide;

120) 2-[(2S,7R)-2-methyl-7-(trifluoromethyl)-1,4-oxazepan-4-yl]-N-(2-sulfamoylpyridin-4-yl)-5-(trifluoromethyl)pyridine-3-carboxamide;
121) 2-((2R,7S)-2-methyl-7-(trifluoromethyl)-1,4-oxazepan-4-yl)-N-(2-sulfamoylpyridin-4-yl)-5-(trifluoromethyl)nicotinamide;
122) 2-((2R,7R)-2-methyl-7-(trifluoromethyl)-1,4-oxazepan-4-yl)-N-(2-sulfamoylpyridin-4-yl)-5-(trifluoromethyl)nicotinamide;
123) 2-((2S,7S)-2-methyl-7-(trifluoromethyl)-1,4-oxazepan-4-yl)-N-(2-sulfamoylpyridin-4-yl)-5-(trifluoromethyl)nicotinamide;
124) (S)-5-chloro-2-(2-(difluoromethyl)morpholino)-6-methyl-N-(2-sulfamoylpyridin-4-yl)-nicotinamide;
125) (R)-5-chloro-2-(2-(difluoromethyl)morpholino)-6-methyl-N-(2-sulfamoylpyridin-4-yl)-nicotinamide;
126) N-(2-sulfamoylpyridin-4-yl)-5-(trifluoromethyl)-2-[(2S)-2-(trifluoromethyl)pyrrolidin-1-yl]pyridine-3-carboxamide;
127) (R)-N-(2-sulfamoylpyridin-4-yl)-5-(trifluoromethyl)-2-(2-(trifluoromethyl)pyrrolidin-1-yl)nicotinamide;
128) N-(2-sulfamoylpyridin-4-yl)-5-(trifluoromethyl)-2-[3-(trifluoromethyl)pyrrolidin-1-yl]pyridine-3-carboxamide;
129) (S)-2-(3-cyanopyrrolidin-1-yl)-N-(2-sulfamoylpyridin-4-yl)-5-(trifluoromethyl)-nicotinamide;
130) (R)-2-(3-cyanopyrrolidin-1-yl)-N-(2-sulfamoylpyridin-4-yl)-5-(trifluoromethyl-)nicotinamide;
131) 2-(4,4-difluoro-3-methylazepan-1-yl)-N-(2-sulfamoylpyridin-4-yl)-5-(trifluoromethyl)-nicotinamide;
132) 2-(4,4-difluoroazepan-1-yl)-N-(2-sulfamoylpyridin-4-yl)-6-(trifluoromethyl)nicotinamide;
133) 2-((2R,6S)-2-ethyl-6-(trifluoromethyl)morpholino)-N-(2-sulfamoylpyridin-4-yl)-5-(trifluoromethyl)nicotinamide;
134) 2-((2S,6R)-2-ethyl-6-(trifluoromethyl)-morpholino)-N-(2-sulfamoylpyridin-4-yl)-5-(trifluoromethyl)nicotinamide;
135) (R)-2-(2,2-dimethyl-6-(trifluoromethyl)morpholino)-N-(2-sulfamoylpyridin-4-yl)-5-(trifluoromethyl)nicotinamide;
136) (S)-2-(2,2-dimethyl-6-(trifluoromethyl)-morpholino)-N-(2-sulfamoylpyridin-4-yl)-5-(trifluoromethyl)nicotinamide;
137) 4-(2-(4,4-difluoroazepan-1-yl)-5-(trifluoromethyl)nicotinamido)picolinamide;
138) 6-chloro-2-(4,4-difluoroazepan-1-yl)-N-(2-sulfamoyl-4-pyridyl)pyridine-3-carboxamide;
139) 2-(azepan-1-yl)-N-(2-sulfamoyl-4-pyridyl)-5-(trifluoromethyl)pyridine-3-carboxamide;

140) 2-(azepan-1-yl)-N-(2-methylsulfonyl-4-pyridyl)-5-(trifluoromethyl)pyridine-3-carboxamide;
141) 2-(azepan-1-yl)-N-(6-sulfamoyl-2-pyridyl)-5-(trifluoromethyl)pyridine-3-carboxamide;
142) 2-(4,4-difluoroazepan-1-yl)-6-methoxy-N-(2-sulfamoylpyridin-4-yl)nicotinamide;
143) N-(2-methoxypyridin-4-yl)-2-(6-azaspiro[2.5]octan-6-yl)-5-(trifluoromethyl)nicotinamide;
144) 2-(4,4-difluoroazepan-1-yl)-N-(5-sulfamoyl-3-pyridyl)-5-(trifluoromethyl)pyridine-3-carboxamide;
145) 2-(azepan-1-yl)-N-(5-sulfamoyl-3-pyridyl)-5-(trifluoromethyl)pyridine-3-carboxamide;
146) 2-(4,4-difluoroazepan-1-yl)-N-(2-methoxy-4-pyridyl)-5-(trifluoromethyl)pyridine-3-carboxamide;
147) 2-((3S,5R)-4,4-difluoro-3,5-dimethylpiperidin-1-yl)-N-(2-(methylsulfonyl)pyridin-4-yl)-5-(trifluoromethyl)nicotinamide;
148) 2-[(3R)-4,4-difluoro-3-methyl-1-piperidyl]-N-(2-methylsulfonyl-4-pyridyl)-5-(trifluoro-methyl)-pyridine-3-carboxamide;
149) 2-[(3S)-4,4-difluoro-3-methyl-1-piperidyl]-N-(2-methylsulfonyl-4-pyridyl)-5-(trifluoro-methyl)-pyridine-3-carboxamide;
150) N-(2-cyano-4-pyridyl)-2-[(3S,5R)-4,4-difluoro-3,5-dimethyl-1-piperidyl]-5-(trifluoro-methyl)-pyridine-3-carboxamide;
151) N-(2-methylsulfonyl-4-pyridyl)-2-[(1R,5S)-6,6,7,7-tetrafluoro-3-azabicyclo[3.2.0]heptan-3-yl]-5-(trifluoromethyl)pyridine-3-carboxamide;
152) 2-[(1R,5S)-3-azabicyclo[3.2.0]heptan-3-yl]-N-(2-methylsulfonyl-4-pyridyl)-5-(trifluoromethyl)pyridine-3-carboxamide;
153) 2-[(1R,5S)-3-azabicyclo[3.2.0]heptan-3-yl]-N-(2-cyano-4-pyridyl)-5-(trifluoromethyl)pyridine-3-carboxamide;
154) (R)-N-(2-cyanopyridin-4-yl)-2-(4,4-difluoro-3-methylpiperidin-1-yl)-5-(trifluoromethyl)-nicotinamide;
155) (S)-N-(2-cyanopyridin-4-yl)-2-(4,4-difluoro-3-methylpiperidin-1-yl)-5-(trifluoromethyl)-nicotinamide;
156) 4-(2-((3S,5R)-4,4-difluoro-3,5-dimethylpiperidin-1-yl)-5-(trifluoromethyl)nicotinamido)-picolinamide;
157) N-(2-carbamoyl-4-pyridyl)-2-[(3S)-4,4-difluoro-3-methyl-1-piperidyl]-5-(trifluoromethyl)-pyridine-3-carboxamide;
158) N-(2-carbamoyl-4-pyridyl)-2-[(3R)-4,4-difluoro-3-methyl-1-piperidyl]-5-(trifluoromethyl)-pyridine-3-carboxamide;
159) 2-(4,4-difluoropiperidin-1-yl)-4-methoxy-N-(2-sulfamoylpyridin-4-yl)nicotinamide;

160) 5-chloro-6-cyclobutyl-2-((2R,6S)-2-methyl-6-(trifluoromethyl)morpholino)-N-(2-sulfamoylpyridin-4-yl)nicotinamide;

161) 5-chloro-6-cyclobutyl-2-((2S,6R)-2-methyl-6-(trifluoromethyl)morpholino)-N-(2-sulfamoylpyridin-4-yl)nicotinamide;

162) (R)-2-(4,4-difluoro-3-methylpiperidin-1-yl)-N-(2-sulfamoylpyridin-4-yl)-6-(trifluoro-methyl)nicotinamide;

163) (S)-2-(4,4-difluoro-3-methylpiperidin-1-yl)-N-(2-sulfamoylpyridin-4-yl)-6-(trifluoro-methyl)nicotinamide;

164) (S)-5-chloro-2-(4,4-difluoro-3-methylpiperidin-1-yl)-N-(2-sulfamoylpyridin-4-yl)-6-(trifluoromethyl)nicotinamide;

165) (R)-5-chloro-2-(4,4-difluoro-3-methylpiperidin-1-yl)-N-(2-sulfamoylpyridin-4-yl)-6-(trifluoromethyl)nicotinamide;

166) 6-cyclobutyl-2-((3S,5R)-4,4-difluoro-3,5-dimethylpiperidin-1-yl)-N-(2-sulfamoylpyridin-4-yl)nicotinamide;

167) 6-cyclobutyl-2-((2R,6S)-2-methyl-6-(trifluoromethyl)morpholino)-N-(2-sulfamoylpyridin-4-yl)nicotinamide;

168) 6-cyclobutyl-2-((2S,6R)-2-methyl-6-(trifluoromethyl)morpholino)-N-(2-sulfamoylpyridin-4-yl)nicotinamide;

169) 5-chloro-6-cyclobutyl-2-((3S,5R)-4,4-difluoro-3,5-dimethylpiperidin-1-yl)-N-(2-sulfamoyl-pyridin-4-yl)nicotinamide;

170) 6-chloro-2-(4,4-difluoropiperidin-1-yl)-4-methyl-N-(2-sulfamoylpyridin-4-yl)nicotinamide;

171) 2-(4,4-difluoroazepan-1-yl)-5-(difluoromethoxy)-N-(2-sulfamoylpyridin-4-yl)nicotinamide;

172) 5-chloro-2-(4,4-difluoroazepan-1-yl)-6-methyl-N-(2-sulfamoylpyridin-4-yl)nicotinamide;

173) 4-(4,4-difluoroazepan-1-yl)-2-methyl-N-(2-sulfamoylpyridin-4-yl)pyrimidine-5-carboxamide;

174) 2-(4,4-difluoroazepan-1-yl)-6-(difluoromethyl)-N-(2-sulfamoylpyridin-4-yl)nicotinamide;

175) 2-(4,4-difluoropiperidin-1-yl)-N-(2-sulfamoylpyridin-4-yl)-5-(trifluoromethyl) nicotinamide;

176) 4-(2-(4,4-difluoropiperidin-1-yl)-5-(trifluoromethyl)nicotinamido)pyridine-2-sulfonic acid;

177) 2-(4,4-difluoroazepan-1-yl)-N-(2-sulfamoylpyridin-4-yl)-5-(trifluoromethoxy)nicotinamide

178) 2-(4,4-difluoropiperidin-1-yl)-5-fluoro-6-methyl-N-(2-sulfamoylpyridin-4-yl)nicotinamide;

179) 3-(4,4-difluoroazepan-1-yl)-N-(2-sulfamoylpyridin-4-yl)-6-(trifluoromethyl)pyridazine-4-carboxamide;

180) 5-(tert-butyl)-2-(4,4-difluoropiperidin-1-yl)-6-methyl-N-(2-sulfamoylpyridin-4-yl)-nicotinamide;

181) 5-cyclopropyl-2-(4,4-difluoropiperidin-1-yl)-N-(2-sulfamoylpyridin-4-yl)-6-(trifluoro-methyl)-nicotinamide;

182) 5-cyclopropyl-2-(4,4-difluoropiperidin-1-yl)-N-(2-sulfamoylpyridin-4-yl)-6-(trifluoro-methoxy)-nicotinamide;

183) 2-(4,4-difluoropiperidin-1-yl)-6-methyl-N-(2-sulfamoylpyridin-4-yl)-5-(2,2,2-trifluoro-ethoxy)-nicotinamide;

184) 2-(4,4-difluoroazepan-1-yl)-6-methyl-N-(2-sulfamoylpyridin-4-yl)-5-(trifluoromethyl)-nicotinamide;

185) 6-cyclopropyl-2-(4,4-difluoroazepan-1-yl)-N-(2-sulfamoylpyridin-4-yl)-5-(trifluoro-methyl)nicotinamide;

186) 2-(azepan-1-yl)-N-(5-fluoropyridin-3-yl)-5-(trifluoromethyl)nicotinamide;

187) 2-(azepan-1-yl)-5-chloro-N-(2-methoxy-4-pyridyl)-4,6-dimethyl-pyridine-3-carboxamide;

188) 2-(azepan-1-yl)-5-chloro-4,6-dimethyl-N-(5-sulfamoyl-3-pyridyl)pyridine-3-carboxamide;

189) 5-chloro-2-(4,4-difluoro-1-piperidyl)-4,6-dimethyl-N-(5-sulfamoyl-3-pyridyl)pyridine-3-carboxamide;

190) 2-(6-azaspiro[2.5]octan-6-yl)-5-chloro-4,6-dimethyl-N-(5-sulfamoyl-3-pyridyl)pyridine-3-carboxamide;

191) 5-chloro-4,6-dimethyl-2-(1-piperidyl)-N-(5-sulfamoyl-3-pyridyl)pyridine-3-carboxamide;

192) 2-(4,4-difluoroazepan-1-yl)-6-methoxy-N-(5-sulfamoyl-3-pyridyl)pyridine-3-carboxamide;

193) 2-(azepan-1-yl)-N-(5-cyano-3-pyridyl)-5-(trifluoromethyl)pyridine-3-carboxamide;

194) 2-(azepan-1-yl)-N-(5-methoxy-3-pyridyl)-5-(trifluoromethyl)pyridine-3-carboxamide;

195) 2-(azepan-1-yl)-N-(5-methyl-3-pyridyl)-5-(trifluoromethyl)pyridine-3-carboxamide;

196) 2-(azepan-1-yl)-N-[5-(hydroxymethyl)-3-pyridyl]-5-(trifluoromethyl)pyridine-3-carboxamide;

197) 2-(azepan-1-yl)-N-(2-cyano-4-pyridyl)-5-(trifluoromethyl)pyridine-3-carboxamide;

198) 2-(azepan-1-yl)-N-(2-ethylsulfonyl-4-pyridyl)-5-(trifluoromethyl)pyridine-3-carboxamide;

199) 2-(azepan-1-yl)-N-(3-bromoimidazo[1,2-a]pyridin-6-yl)-5-(trifluoromethyl)pyridine-3-carboxamide;
200) 2-(azepan-1-yl)-5-(trifluoromethyl)-N-[5-(trifluoromethyl)-3-pyridyl]pyridine-3-carboxamide;
201) 2-(azepan-1-yl)-5-chloro-4,6-dimethyl-N-(2-sulfamoylpyridin-4-yl)nicotinamide;
202) 5-chloro-4,6-dimethyl-2-(6-azaspiro[2.5]octan-6-yl)-N-(2-sulfamoylpyridin-4-yl)nicotinamide;
203) 4-(2-(azepan-1-yl)-5-(trifluoromethyl)nicotinamido)picolinamide;
204) 5-bromo-2-(4,4-difluoropiperidin-1-yl)-N-(2-sulfamoylpyridin-4-yl)nicotinamide;
205) 2-(4,4-difluoropiperidin-1-yl)-5-phenyl-N-(2-sulfamoylpyridin-4-yl)nicotinamide;
206) 2-(4,4-difluoropiperidin-1-yl)-5-(piperidin-1-yl)-N-(2-sulfamoylpyridin-4-yl)nicotinamide;
207) 2-(4,4-difluoropiperidin-1-yl)-5-(1H-pyrazol-1-yl)-N-(2-sulfamoylpyridin-4-yl)-nicotinamide;
208) N-(2-oxo-1,2-dihydropyridin-4-yl)-2-(6-azaspiro[2.5]octan-6-yl)-5-(trifluoromethyl)-nicotinamide;
209) 5-chloro-4,6-dimethyl-N-(2-oxo-1,2-dihydropyridin-4-yl)-2-(6-azaspiro[2.5]octan-6-yl)nicotinamide;
210) 2-(4,4-difluoroazepan-1-yl)-N-(2-oxo-1,2-dihydropyridin-4-yl)-5-(trifluoromethyl)-nicotinamide;
211) 5-chloro-4,6-dimethyl-N-(2-oxo-1,2-dihydropyridin-4-yl)-2-(piperidin-1-yl)nicotinamide;
212) 2-(azepan-1-yl)-N-(2-oxo-1,2-dihydropyridin-4-yl)-5-(trifluoromethyl)nicotinamide; and
213) 2-(azepan-1-yl)-5-chloro-4,6-dimethyl-N-(2-oxo-1,2-dihydropyridin-4-yl)nicotinamide;

or a pharmaceutically acceptable salt thereof.

12. A compound selected from:

1) 5-chloro-2-(4,4-difluorocyclohexyl)-4,6-dimethyl-N-(2-sulfamoylpyridin-4-yl)nicotinamide;
2) 5-chloro-2-cycloheptyl-4,6-dimethyl-N-(2-sulfamoylpyridin-4-yl)nicotinamide
3) 5-chloro-3-(4,4-difluoroazepan-1-yl)-N-(2-sulfamoylpyridin-4-yl)pyrazine-2-carboxamide;
4) 5-chloro-4,6-dimethyl-2-(4-methylcyclohexyl)-N-(2-sulfamoylpyridin-4-yl)nicotinamide; and
5) 5-chloro-2-(4,4-difluoroazepan-1-yl)-N,4,6-trimethyl-N-(2-sulfamoylpyridin-4-yl)nicotinamide;

or a pharmaceutically acceptable salt thereof.

13. A pharmaceutical composition comprising a compound of any one of Claims 1 to 12, or a pharmaceutically acceptable salt thereof, and a pharmaceutically acceptable carrier.

14. The use of a compound of any one of Claims 1 to 12, or a pharmaceutically acceptable salt thereof, in the manufacture of a medicament for the treatment, prevention or control of a pain disorder, a cough disorder, an acute itch disorder or chronic itch disorder.

15. The use of Claim 14 wherein the disorder is a pain disorder.

16. The use of Claim 15 wherein the pain disorder is selected from: acute pain, inflammatory pain, or neuropathic pain.

17. A compound according to any one of Claims 1 to 12, or a pharmaceutically acceptable salt thereof, for use in therapy.

18. A compound selected from:

1) (S)-2-(4,4-difluoro-3-methylpiperidin-1-yl)-N-(2-sulfamoylpyridin-4-yl)-5-(trifluoromethyl)nicotinamide;
2) (R)-2-(4,4-difluoro-3-methylpiperidin-1-yl)-N-(2-sulfamoylpyridin-4-yl)-5-(trifluoromethyl)nicotinamide;
3) 2-(4,4-difluoroazepan-1-yl)-6-methyl-N-(2-sulfamoylpyridin-4-yl)-nicotinamide;
4) 2-(4,4-difluoroazepan-1-yl)-6-methyl-N-(2-sulfamoylpyridin-4-yl)-5-(trifluoromethyl)nicotinamide;
5) 5-chloro-6-cyclobutyl-2-((2R,6S)-2-methyl-6-(trifluoromethyl)morpholino)-N-(2-sulfamoylpyridin-4-yl)nicotinamide;
6) 5-chloro-6-cyclobutyl-2-((2S,6R)-2-methyl-6-(trifluoromethyl)morpholino)-N-(2-sulfamoylpyridin-4-yl)nicotinamide;
7) 5-chloro-2-(4,4-difluoroazepan-1-yl)-6-methyl-N-(2-sulfamoylpyridin-4-yl)nicotinamide;
8) 2-(4,4-difluoroazepan-1-yl)-6-(difluoromethyl)-N-(2-sulfamoylpyridin-4-yl)nicotinamide;
9) 2-(4,4-difluoropiperidin-1-yl)-5-fluoro-6-methyl-N-(2-sulfamoylpyridin-4-yl)nicotinamide;
10) 2-(4,4-difluoropiperidin-1-yl)-N-(2-sulfamoylpyridin-4-yl)-5-(trifluoromethyl) nicotinamide;
11) 5-chloro-6-cyclobutyl-2-((3S,5R)-4,4-difluoro-3,5-dimethylpiperidin-1-yl)-N-(2-sulfamoylpyridin-4-yl)nicotinamide;
12) 4-(2-(4,4-difluoroazepan-1-yl)-5-(trifluoromethyl)nicotinamido)picolinamide;
13) 5-chloro-6-cyclopropyl-2-(4,4-difluoroazepan-1-yl)-N-(2-oxo-1,2-dihydro-pyridin-4-yl)nicotinamide; and
14) 2-(4,4-difluoroazepan-1-yl)-N-(2-sulfamoylpyridin-4-yl)-5-(trifluoromethyl)-nicotinamide;

or a pharmaceutically acceptable salt thereof.

19. A compound which is (S)-2-(4,4-difluoro-3-methylpiperidin-1-yl)-N-(2-sulfamoylpyridin-4-yl)-5-(trifluoromethyl)nicotinamide; or a pharmaceutically acceptable salt thereof.

20. A compound which is (R)-2-(4,4-difluoro-3-methylpiperidin-1-yl)-N-(2-sulfamoylpyridin-4-yl)-5-(trifluoromethyl)nicotinamide; or a pharmaceutically acceptable salt thereof.

21. A compound which is 5-chloro-6-cyclobutyl-2-((2R,6S)-2-methyl-6-(trifluoromethyl)morpholino)-N-(2-sulfamoylpyridin-4-yl)-nicotinamide; or a pharmaceutically acceptable salt thereof.

22. A compound which is 2-(4,4-difluoro-piperidin-1-yl)-5-fluoro-6-methyl-N-(2-sulfamoylpyridin-4-yl)nicotinamide; or a pharmaceutically acceptable salt thereof.

23. A compound which is 5-chloro-6-cyclopropyl-2-(4,4-difluoroazepan-1-yl)-N-(2-oxo-1,2-dihydropyridin-4-yl)nicotinamide; or a pharmaceutically acceptable salt thereof.