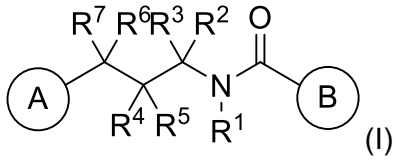
CLAIMS

1. A compound according to formula (I):



(I)

wherein:

R^1 is H;

R^2 is H, methyl, ethyl, or CF_3;

R^3 is H;

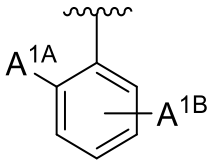
R^4 is H, halo or C_{1-4}alkyl;

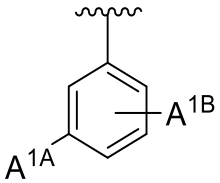
R^5 is halo, C_{1-6}alkyl, C_{1-6}haloalkyl, C_{1-6}alkoxy, C_{1-6}haloalkoxy, C_{2-6}alkenyl, C_{2-6}haloalkenyl, C_{0-6}alkylene(C_{3-6}cycloalkyl), C_{0-6}alkylene(OH); or R^4 and R^5 together with the carbon atom to which they are attached form a C_{5-11} spiro carbocyclyl, 4 to 7 membered heterocycle or C_{3-6}cycloalkyl wherein said spiro carbocyclyl, heterocycloalkyl or cycloalkyl may be optionally substituted by one or more groups selected from C_{1-3}alkyl, C_{1-3}haloalkyl and halo;

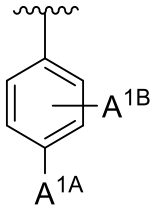
R^6 is H;

R^7 is H, halo, methyl, or methoxy;

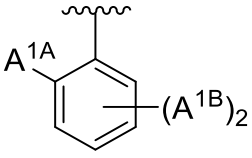
A is selected from the group consisting of unsubstituted phenyl and (A1) to (A6):

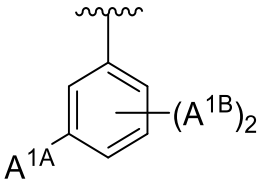


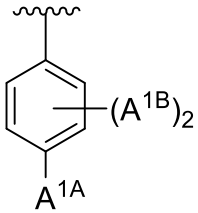
(A1);


(A2); and


(A3);



(A4);


(A5);


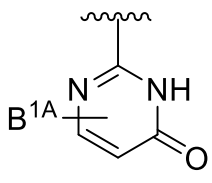
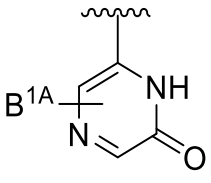
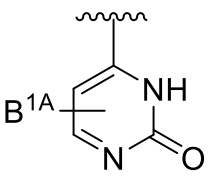
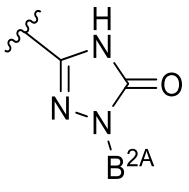
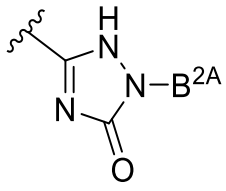
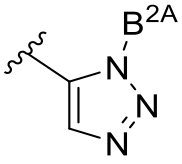
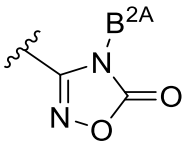
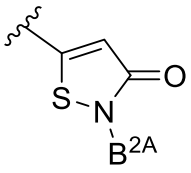
(A6);

wherein:

A^{1A} is halo, C_{1-6}alkyl, or C_{1-6}alkoxy; and

A^{1B} is H or halo; and

B is selected from the group consisting of (B1) to (B3) and (B5) to (B9):


(B1);

(B2);

(B3);

(B5);

(B6);

(B7);

(B8);

(B9);

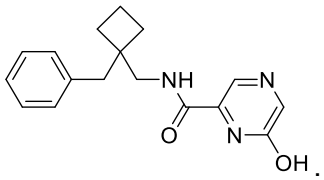
wherein:

B^{1A} is H, halo, or C_{1-6}alkyl; and

B^{2A} is H, or C_{1-6}alkyl;

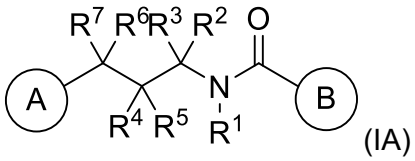
or a salt and/or solvate thereof,

and provided that the compound according to formula (I) or salt and/or solvate thereof is not N-((1-benzylcyclobutyl)methyl)-6-hydroxypyrazine-2-carboxamide:


.

or a salt and/or solvate thereof.

2. A compound of formula (I) or a salt and/or solvate thereof according to claim 1 which is a compound of formula (IA):


(IA)

wherein:

R^1 is H;

R^2 is H, methyl, ethyl, or CF_3;

R^3 is H;

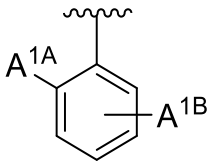
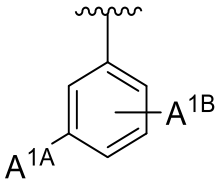
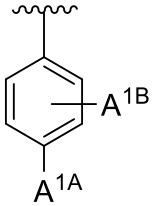
R^4 is H or C_{1-4}alkyl;

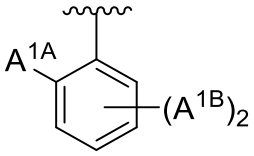
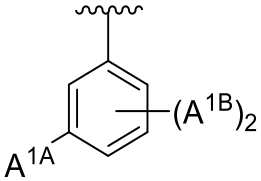
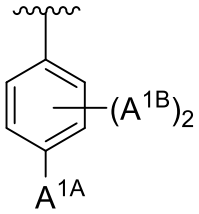
R^5 is halo, C_{1-6}alkyl, C_{1-6}haloalkyl, C_{1-6}alkoxy, C_{1-6}haloalkoxy, C_{2-6}alkenyl, C_{2-6}haloalkenyl, C_{0-6}alkylene(C_{3-6}cycloalkyl), C_{0-6}alkylene(OH); or R^4 and R^5 together with the atom to which they are attached form a C_{3-6}cycloalkyl wherein said cycloalkyl may be optionally substituted by one or more groups selected from C_{1-3}alkyl, C_{1-3}haloalkyl and halo;

R^6 is H;

R^7 is H, halo, methyl, or methoxy;

A is selected from the group consisting of unsubstituted phenyl and (A1) to (A6):


(A1);

(A2); and

(A3);

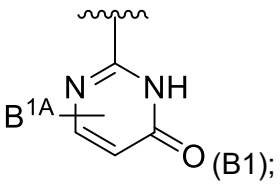
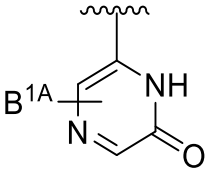
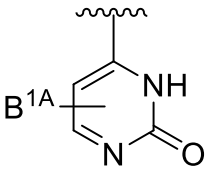
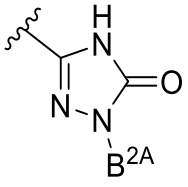

(A4);

(A5);

(A6);

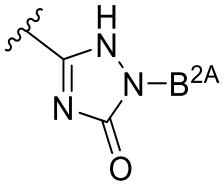
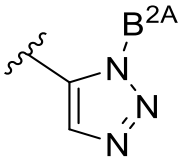
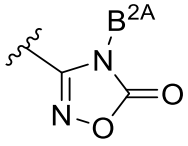
wherein:

A^{1A} is halo, $C_{1\text{-}6}$alkyl, or $C_{1\text{-}6}$alkoxy; and

A^{1B} is H or halo; and

B is selected from the group consisting of (B1) to (B3) and (B5) to (B8):


(B1);

(B2);

(B3);

(B5);


(B6);

(B7);

(B8);

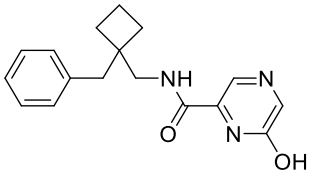
wherein:

B^{1A} is H or $C_{1\text{-}6}$alkyl; and

B^{2A} is H or $C_{1\text{-}6}$alkyl;

or a salt and/or solvate thereof,

and provided that the compound according to formula (IA) or salt and/or solvate thereof is not N-((1-benzylcyclobutyl)methyl)-6-hydroxypyrazine-2-carboxamide:



or a salt and/or solvate thereof.

3. The compound or salt and/or solvate thereof according to claim 1 or claim 2, which is the compound or pharmaceutically acceptable salt and/or solvate thereof.

4. The compound or salt and/or solvate thereof according to any one of claims 1 to 3, wherein R^2 is H.

5. The compound or salt and/or solvate thereof according to any one of claims 1 to 4, wherein R^4 is H.

6. The compound or salt and/or solvate thereof according to any one of claims 1 to 5, wherein R^5 is C_{1-6}alkyl.

7. The compound or salt and/or solvate thereof according to claim 6 wherein R^5 is ethyl.

8. The compound or salt and/or solvate thereof according to any one of claims 1 to 5, wherein R^5 is C_{0-6}alkylene(C_{3-6}cycloalkyl).

9. The compound or salt and/or solvate thereof according to claim 8 wherein R^5 is cyclopropyl.

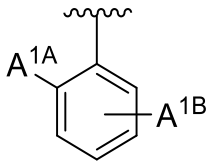
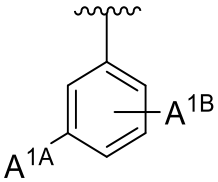
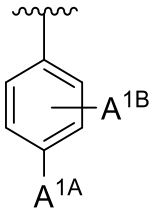
10. The compound or salt and/or solvate thereof according to any one of claims 1 to 4, wherein R^4 and R^5 together with the atom to which they are attached form a C_{3-6}cycloalkyl.

11. The compound or salt and/or solvate thereof according to claim 10 wherein R^4 and R^5 together with the atom to which they are attached form a cyclobutyl ring.

12. The compound or salt and/or solvate thereof according to any one of claims 1 to 11, wherein R^7 is H.

13. The compound or salt and/or solvate thereof according to any one of claims 1 to 12, wherein A is unsubstituted phenyl.

14. The compound or salt and/or solvate thereof according to any one of claims 1 to 12, wherein A is selected from the group consisting of:


(A1);

(A2); and

(A3);

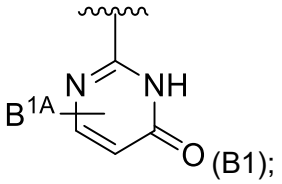
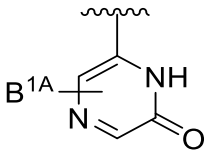
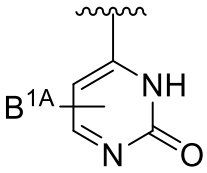
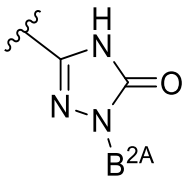
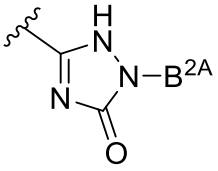
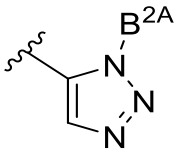
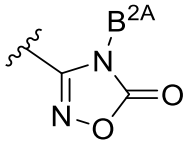
wherein:

A^{1A} is halo; and

A^{1B} is H or halo.

15. The compound or salt and/or solvate thereof according to claim 14 wherein A^{1B} is F.

16. The compound or salt and/or solvate thereof according to claim 1, wherein B is selected from the group consisting of:

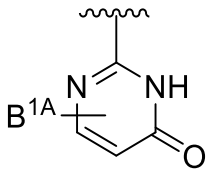
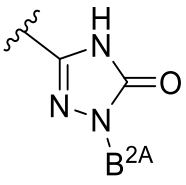
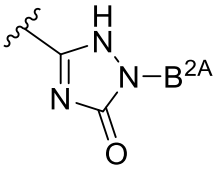

(B1);

(B2);

(B3);

(B5);

(B6);

(B7); and

(B8),

wherein:

B^{1A} is H or $C_{1\text{-}6}$alkyl; and

B^{2A} is H or $C_{1\text{-}6}$alkyl.

17. The compound or salt and/or solvate thereof according to any one of claims 1 to 16 wherein B is selected from the group consisting of:

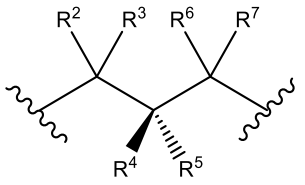

(B1);

(B5); and

(B6);

wherein:

B^{1A} is H or $C_{1\text{-}6}$alkyl; and

B^{2A} is H or $C_{1\text{-}6}$alkyl.

18. The compound or salt and/or solvate thereof according to any one of claims 1 to 17, wherein R^4 and R^5 have the following stereochemistry:



19. The compound or salt and/or solvate thereof according to claim 1, which is selected from the group consisting of:

N-((1-benzylcyclobutyl)methyl)-1H-1,2,3-triazole-5-carboxamide;
N-((1-benzylcyclobutyl)methyl)-2-oxo-2,3-dihydropyrimidine-4-carboxamide;
N-((1-benzylcyclobutyl)methyl)-6-oxo-1,6-dihydropyrimidine-2-carboxamide;
N-((1-benzylcyclobutyl)methyl)-5-oxo-2,5-dihydro-1H-1,2,4-triazole-3-carboxamide;
N-((1-benzylcyclobutyl)methyl)-5-methyl-6-oxo-1,6-dihydropyrimidine-2-carboxamide;
N-((1-benzylcyclobutyl)methyl)-1-methyl-5-oxo-4,5-dihydro-1H-1,2,4-triazole-3-carboxamide;
N-(2,2-dimethyl-3-phenylpropyl)-6-hydroxypyrazine-2-carboxamide;
N-((1-(2-fluorobenzyl)cyclobutyl)methyl)-6-hydroxypyrazine-2-carboxamide;
N-((1-benzylcyclobutyl)methyl)-1-ethyl-5-oxo-4,5-dihydro-1H-1,2,4-triazole-3-carboxamide;
N-((1-(2,6-difluorobenzyl)cyclobutyl)methyl)-6-oxo-1,6-dihydropyrazine-2-carboxamide;
N-((1-(2,4-difluorobenzyl)cyclobutyl)methyl)-6-oxo-1,6-dihydropyrazine-2-carboxamide;
N-((1-(2,3-difluorobenzyl)cyclobutyl)methyl)-6-oxo-1,6-dihydropyrazine-2-carboxamide;
N-((1-benzylcyclopentyl)methyl)-6-oxo-1,6-dihydropyrazine-2-carboxamide;
N-((1-(2-methylbenzyl)cyclobutyl)methyl)-6-oxo-1,6-dihydropyrazine-2-carboxamide;
N-((1-(2-fluorobenzyl)cyclobutyl)methyl)-1-methyl-5-oxo-4,5-dihydro-1H-1,2,4-triazole-3-carboxamide;
N-((1-(2,6-difluorobenzyl)cyclobutyl)methyl)-1-methyl-5-oxo-4,5-dihydro-1H-1,2,4-triazole-3-carboxamide;
N-((1-(2,4-difluorobenzyl)cyclobutyl)methyl)-1-methyl-5-oxo-4,5-dihydro-1H-1,2,4-triazole-3-carboxamide;
N-(1-(1-benzylcyclobutyl)ethyl)-1-methyl-5-oxo-4,5-dihydro-1H-1,2,4-triazole-3 carboxamide;
1-methyl-5-oxo-N-((1-(1-phenylethyl)cyclobutyl)methyl)-4,5-dihydro-1H-1,2,4-triazole-3-carboxamide;
N-((1-(methoxy(phenyl)methyl)cyclobutyl)methyl)-1-methyl-5-oxo-4,5-dihydro-1H-1,2,4-triazole-3-carboxamide;
1-methyl-N-((1-(2-methylbenzyl)cyclobutyl)methyl)-5-oxo-4,5-dihydro-1H-1,2,4-triazole-3-carboxamide;
N-((1-(2-chlorobenzyl)cyclobutyl)methyl)-1-methyl-5-oxo-4,5-dihydro-1H-1,2,4-triazole-3-carboxamide;
N-(2,2-dimethyl-3-phenylpropyl)-1-methyl-5-oxo-4,5-dihydro-1H-1,2,4-triazole-3-carboxamide;
1-methyl-N-(2-methyl-3-phenylpropyl)-5-oxo-4,5-dihydro-1H-1,2,4-triazole-3-carboxamide;

N-((1-benzylcyclopropyl)methyl)-1-methyl-5-oxo-4,5-dihydro-1H-1,2,4-triazole-3-carboxamide;
N-(2,2-dimethyl-1-phenylpentan-3-yl)-1-methyl-5-oxo-4,5-dihydro-1H-1,2,4-triazole-3-carboxamide;
1-methyl-5-oxo-N-(1,1,1-trifluoro-3,3-dimethyl-4-phenylbutan-2-yl)-4,5-dihydro-1H-1,2,4-triazole-3-carboxamide;
N-(3-(2-bromophenyl)-2,2-dimethylpropyl)-1-methyl-5-oxo-4,5-dihydro-1H-1,2,4-triazole-3-carboxamide;
N-((1-(2-bromobenzyl)cyclobutyl)methyl)-1-methyl-5-oxo-4,5-dihydro-1H-1,2,4-triazole-3-carboxamide;
N-(3,3-dimethyl-4-phenylbutan-2-yl)-1-methyl-5-oxo-4,5-dihydro-1H-1,2,4-triazole-3-carboxamide;
N-(2-benzylbutyl)-1-methyl-5-oxo-4,5-dihydro-1H-1,2,4-triazole-3-carboxamide;
N-(2-benzyl-3-hydroxy-2-methylpropyl)-1-methyl-5-oxo-4,5-dihydro-1H-1,2,4-triazole-3-carboxamide;
N-(2-benzyl-3-hydroxy-2-methylbutyl)-1-methyl-5-oxo-4,5-dihydro-1H-1,2,4-triazole-3-carboxamide;
N-(2-methoxy-3-phenylpropyl)-1-methyl-5-oxo-4,5-dihydro-1H-1,2,4-triazole-3-carboxamide;
N-(2-benzyl-2-methylbutyl)-1-methyl-5-oxo-4,5-dihydro-1H-1,2,4-triazole-3-carboxamide;
N-(2-benzyl-3-methylbutyl)-1-methyl-5-oxo-4,5-dihydro-1H-1,2,4-triazole-3-carboxamide;
N-((1-benzylcyclohexyl)methyl)-6-oxo-1,6-dihydropyrazine-2-carboxamide;
N-((1-benzyl-3,3-difluorocyclobutyl)methyl)-6-oxo-1,6-dihydropyrazine-2-carboxamide;
N-((1-(3-fluorobenzyl)cyclobutyl)methyl)-6-hydroxypyrazine-2-carboxamide;
N-((1-(4-fluorobenzyl)cyclobutyl)methyl)-6-hydroxypyrazine-2-carboxamide;
N-(2-cyclobutyl-3-phenylpropyl)-1-methyl-5-oxo-4,5-dihydro-1H-1,2,4-triazole-3-carboxamide;
N-((1-(1-(2,4-difluorophenyl)ethyl)cyclobutyl)methyl)-1-methyl-5-oxo-4,5-dihydro-1H-1,2,4-triazole-3-carboxamide;
N-(2-cyclopropyl-3-phenylpropyl)-1-methyl-5-oxo-4,5-dihydro-1H-1,2,4-triazole-3-carboxamide;
N-(2-benzylpentyl)-1-methyl-5-oxo-4,5-dihydro-1H-1,2,4-triazole-3-carboxamide;
N-((1-(2-methoxybenzyl)cyclobutyl)methyl)-1-methyl-5-oxo-4,5-dihydro-1H-1,2,4-triazole-3-carboxamide;
N-((1-benzylcyclobutyl)methyl)-1-methyl-2-oxo-2,3-dihydro-1H-imidazole-4-carboxamide;
N-(2-benzyl-3-hydroxypropyl)-1-methyl-5-oxo-4,5-dihydro-1H-1,2,4-triazole-3-carboxamide;
N-((1-(2,4-Difluorobenzyl)cyclohexyl)methyl)-1-methyl-5-oxo-4,5-dihydro-1H-1,2,4-triazole-3-carboxamide;
N-(3-Benzylpentan-2-yl)-1-methyl-5-oxo-4,5-dihydro-1H-1,2,4-triazole-3-carboxamide;
N-((1-(3-Methoxybenzyl)cyclobutyl)methyl)-1-methyl-5-oxo-4,5-dihydro-1H-1,2,4-triazole-3-carboxamide;

N-(2-Cyclopropyl-3-(3-fluorophenyl)propyl)-1-methyl-5-oxo-4,5-dihydro-1H-1,2,4-triazole-3-carboxamide;
N-((1-(3-Chlorobenzyl)cyclobutyl)methyl)-1-methyl-5-oxo-4,5-dihydro-1H-1,2,4-triazole-3-carboxamide;
N-((1-(2,5-Difluorobenzyl)cyclobutyl)methyl)-1-methyl-5-oxo-4,5-dihydro-1H-1,2,4-triazole-3-carboxamide;
N-((1-(2-Ethylbenzyl)cyclobutyl)methyl)-1-methyl-5-oxo-4,5-dihydro-1H-1,2,4-triazole-3-carboxamide;
N-((1-(2-Fluoro-5-methylbenzyl)cyclobutyl)methyl)-1-methyl-5-oxo-4,5-dihydro-1H-1,2,4-triazole-3-carboxamide;
N-((1-(3-Fluorobenzyl)cyclobutyl)methyl)-1-methyl-5-oxo-4,5-dihydro-1H-1,2,4-triazole-3-carboxamide;
N-((1-(3-Chloro-2-fluorobenzyl)cyclobutyl)methyl)-1-methyl-5-oxo-4,5-dihydro-1H-1,2,4-triazole-3-carboxamide;
N-((1-(4-Fluoro-2-methylbenzyl)cyclobutyl)methyl)-1-methyl-5-oxo-4,5-dihydro-1H-1,2,4-triazole-3-carboxamide;
N-((1-Benzylcyclobutyl)methyl)-5-oxo-4,5-dihydro-1,2,4-oxadiazole-3-carboxamide;
1-Methyl-N-((1-(3-methylbenzyl)cyclobutyl)methyl)-5-oxo-4,5-dihydro-1H-1,2,4-triazole-3-carboxamide;
N-((1-(4-Chloro-2-fluorobenzyl)cyclobutyl)methyl)-1-methyl-5-oxo-4,5-dihydro-1H-1,2,4-triazole-3-carboxamide;
N-((1-(4-Chloro-2-methylbenzyl)cyclobutyl)methyl)-1-methyl-5-oxo-4,5-dihydro-1H-1,2,4-triazole-3-carboxamide;
N-((1-(2,4-Difluorobenzyl)cyclopentyl)methyl)-1-methyl-5-oxo-4,5-dihydro-1H-1,2,4-triazole-3-carboxamide;
N-(2-Cyclopropyl-3-(2,4-difluorophenyl)propyl)-1-methyl-5-oxo-4,5-dihydro-1H-1,2,4-triazole-3-carboxamide;
N-((1-(2-Fluoro-3-methylbenzyl)cyclobutyl)methyl)-1-methyl-5-oxo-4,5-dihydro-1H-1,2,4-triazole-3-carboxamide;
N-((1-(2,3-Difluorobenzyl)cyclobutyl)methyl)-1-methyl-5-oxo-4,5-dihydro-1H-1,2,4-triazole-3-carboxamide;
N-(2-(2,4-Difluorobenzyl)butyl)-1-methyl-5-oxo-4,5-dihydro-1H-1,2,4-triazole-3-carboxamide;
N-((1-(3-Bromobenzyl)cyclobutyl)methyl)-1-methyl-5-oxo-4,5-dihydro-1H-1,2,4-triazole-3-carboxamide;
N-((1-(3,5-difluorobenzyl)cyclobutyl)methyl)-1-methyl-5-oxo-4,5-dihydro-1H-1,2,4-triazole-3-carboxamide;
N-(2-cyclopropyl-3-(2,4,6-trifluorophenyl)propyl)-1-methyl-5-oxo-4,5-dihydro-1*H*-1,2,4-triazole-3-carboxamide

N-((2-(2,4-difluorobenzyl)tetrahydrofuran-2-yl)methyl)-1-methyl-5-oxo-4,5-dihydro-1H-1,2,4-triazole-3-carboxamide;
N-((4-(2,4-difluorobenzyl)tetrahydro-2H-pyran-4-yl)methyl)-1-methyl-5-oxo-4,5-dihydro-1H-1,2,4-triazole-3-carboxamide;
N-((1-(2,4-difluorobenzyl)spiro[2.2]pentan-1-yl)methyl)-6-oxo-1,6-dihydropyrazine-2-carboxamide;
N-((1-(2,4-difluorobenzyl)spiro[2.2]pentan-1-yl)methyl)-1-methyl-5-oxo-4,5-dihydro-1H-1,2,4-triazole-3-carboxamide;
1-methyl-5-oxo-N-(2-(2,4,6-trifluorobenzyl)butyl)-4,5-dihydro-1H-1,2,4-triazole-3-carboxamide;
N-(2-(2,4-difluorobenzyl)-2-fluorobutyl)-1-methyl-5-oxo-4,5-dihydro-1H-1,2,4-triazole-3-carboxamide;
N-(2-cyclopropyl-3-(4-fluoro-2-methylphenyl)propyl)-1-methyl-5-oxo-4,5-dihydro-1H-1,2,4-triazole-3-carboxamide;
N-((1-(3,4-difluorobenzyl)cyclobutyl)methyl)-6-oxo-1,6-dihydropyrimidine-2-carboxamide;
N-((1-(3,4-difluorobenzyl)cyclobutyl)methyl)-6-oxo-1,6-dihydropyrazine-2-carboxamide;
N-(-3-(2,4-difluorobenzyl)pentan-2-yl)-1-methyl-5-oxo-4,5-dihydro-1H-1,2,4-triazole-3-carboxamide;
N-((1-(3,4-difluorobenzyl)cyclobutyl)methyl)-1-methyl-5-oxo-4,5-dihydro-1H-1,2,4-triazole-3-carboxamide;
N-(2-cyclopropyl-3-(3,4-difluorophenyl)propyl)-6-oxo-1,6-dihydropyrimidine-2-carboxamide;
N-((1-(2,5-difluorobenzyl)cyclobutyl)methyl)-6-oxo-1,6-dihydropyrimidine-2-carboxamide;
6-oxo-N-((1-(2,4,5-trifluorobenzyl)cyclobutyl)methyl)-1,6-dihydropyrazine-2-carboxamide;
N-(2-cyclopropyl-3-(2,4-difluorophenyl)propyl)-6-oxo-1,6-dihydropyrimidine-2-carboxamide;
N-(2-cyclopropyl-3-(3,4-difluorophenyl)propyl)-1-methyl-5-oxo-4,5-dihydro-1H-1,2,4-triazole-3-carboxamide;
N-(2-cyclopropyl-3-(3,4-difluorophenyl)propyl)-6-oxo-1,6-dihydropyrazine-2-carboxamide;
N-((1-(2,4-difluorobenzyl)cyclopentyl)methyl)-6-oxo-1,6-dihydropyrazine-2-carboxamide;
N-(2-cyclopropyl-3-(2,5-difluorophenyl)propyl)-6-oxo-1,6-dihydropyrimidine-2-carboxamide;
N-(2-cyclopropyl-3-(2,4-difluorophenyl)propyl)-6-oxo-1,6-dihydropyrazine-2-carboxamide;
1-methyl-5-oxo-N-((1-(2,3,4-trifluorobenzyl)cyclobutyl)methyl)-4,5-dihydro-1H-1,2,4-triazole-3-carboxamide;
1-methyl-5-oxo-N-((1-(2,4,5-trifluorobenzyl)cyclobutyl)methyl)-4,5-dihydro-1H-1,2,4-triazole-3-carboxamide;
N-(2-cyclopropyl-3-(2,5-difluorophenyl)propyl)-6-oxo-1,6-dihydropyrazine-2-carboxamide;
N-(2-cyclopropyl-3-(2,5-difluorophenyl)propyl)-1-methyl-5-oxo-4,5-dihydro-1H-1,2,4-triazole-3-carboxamide;
N-((1-(2,4-difluorobenzyl)cyclobutyl)methyl)-6-oxo-1,6-dihydropyrimidine-2-carboxamide;

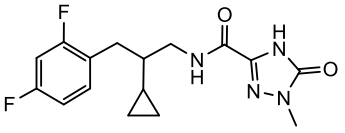
N-((1-(3-ethylbenzyl)cyclobutyl)methyl)-1-methyl-5-oxo-4,5-dihydro-1H-1,2,4-triazole-3-carboxamide;
N-(2-(2,4-difluorobenzyl)butyl)-6-oxo-1,6-dihydropyrazine-2-carboxamide;
N-(2-(3,4-difluorobenzyl)butyl)-1-methyl-5-oxo-4,5-dihydro-1H-1,2,4-triazole-3-carboxamide;
N-((1-(4-fluoro-2-methylbenzyl)cyclobutyl)methyl)-6-oxo-1,6-dihydropyrazine-2-carboxamide;
N-((1-(4-fluoro-2-methylbenzyl)cyclobutyl)methyl)-6-oxo-1,6-dihydropyrimidine-2-carboxamide;
N-((1-(2,4-difluorobenzyl)cyclobutyl)methyl)-1H-1,2,3-triazole-5-carboxamide;
N-((1-(2,5-difluorobenzyl)cyclobutyl)methyl)-6-oxo-1,6-dihydropyrazine-2-carboxamide;
N-(2-cyclopropyl-3-(2,4,6-trifluorophenyl)propyl)-6-oxo-1,6-dihydropyrimidine-2-carboxamide;
N-((4-(2,4-difluorobenzyl)tetrahydro-2H-pyran-4-yl)methyl)-6-oxo-1,6-dihydropyrimidine-2-carboxamide;
N-((1-(2,4-difluorobenzyl)spiro[2.2]pentan-1-yl)methyl)-6-oxo-1,6-dihydropyrimidine-2-carboxamide;
N-(2-cyclopropyl-3-(2,4-difluorophenyl)-2-methylpropyl)-6-oxo-1,6-dihydropyrimidine-2-carboxamide;
N-(2-cyclopropyl-3-(2,6-difluorophenyl)propyl)-6-oxo-1,6-dihydropyrimidine-2-carboxamide;
N-(2-cyclopropyl-3-(4-fluorophenyl)propyl)-1-methyl-5-oxo-4,5-dihydro-1H-1,2,4-triazole-3-carboxamide;
N-(2-(2,4-difluorobenzyl)butyl)-6-oxo-1,6-dihydropyrimidine-2-carboxamide;
N-(2-cyclopropyl-3-(2,4-difluorophenyl)propyl)-5-fluoro-6-oxo-1,6-dihydropyrimidine-2-carboxamide;
N-(3-(2-chloro-4-fluorophenyl)-2-cyclopropylpropyl)-1-methyl-5-oxo-4,5-dihydro-1*H*-1,2,4-triazole-3-carboxamide;
N-((1-(2,4-difluorobenzyl)spiro[2.2]pentan-1-yl)methyl)-5-oxo-4,5-dihydro-1,2,4-oxadiazole-3-carboxamide;
N-(2-cyclopropyl-3-(2,4-difluorophenyl)butyl)-1-methyl-5-oxo-4,5-dihydro-1*H*-1,2,4-triazole-3-carboxamide;
N-(2-(2,4-difluorobenzyl)-2-ethylbutyl)-1-methyl-5-oxo-4,5-dihydro-1H-1,2,4-triazole-3-carboxamide;
N-((1-(3,4-difluorobenzyl)cyclobutyl)methyl)-5-oxo-4,5-dihydro-1,2,4-oxadiazole-3-carboxamide;
N-(2-cyclopropyl-3-(3,4-difluorophenyl)propyl)-5-oxo-4,5-dihydro-1,2,4-oxadiazole-3-carboxamide;
N-(2-cyclopropyl-3-(2,4-difluorophenyl)propyl)-5-oxo-4,5-dihydro-1,2,4-oxadiazole-3-carboxamide;
N-((1-(2,4-difluorobenzyl)cyclobutyl)methyl)-5-oxo-4,5-dihydro-1,2,4-oxadiazole-3-carboxamide;
N-(2-cyclopropyl-3-(2,5-difluorophenyl)propyl)-5-oxo-4,5-dihydro-1,2,4-oxadiazole-3-carboxamide;
N-(2-(2,4-difluorobenzyl)butyl)-5-oxo-4,5-dihydro-1,2,4-oxadiazole-3-carboxamide;

N-(2-cyclopropyl-3-(2,4-difluorophenyl)-2-methylpropyl)-1-methyl-5-oxo-4,5-dihydro-1H-1,2,4-triazole-3-carboxamide;
N-((1-(2,4-difluorobenzyl)cyclobutyl)methyl)-5-oxo-4,5-dihydro-1,3,4-oxadiazole-2-carboxamide;
N-(2-cyclopropyl-3-(2,6-difluorophenyl)propyl)-1-methyl-5-oxo-4,5-dihydro-1H-1,2,4-triazole-3-carboxamide;
N-((1-(2,4-difluorobenzyl)-3-fluorocyclobutyl)methyl)-6-oxo-1,6-dihydropyrimidine-2-carboxamide;
N-(2-(2,4-difluorobenzyl)-2-fluorobutyl)-6-oxo-1,6-dihydropyrimidine-2-carboxamide;
N-(2-cyclopropyl-3-(4-fluorophenyl)-2-methylpropyl)-6-oxo-1,6-dihydropyrimidine-2-carboxamide;
N-(2-cyclopropyl-3-(4-fluorophenyl)propyl)-6-oxo-1,6-dihydropyrimidine-2-carboxamide;
5-bromo-N-(2-cyclopropyl-3-(2,4-difluorophenyl)propyl)-6-oxo-1,6-dihydropyrimidine-2-carboxamide;
N-(3-(2-chloro-4,6-difluorophenyl)-2-cyclopropylpropyl)-1-methyl-5-oxo-4,5-dihydro-1H-1,2,4-triazole-3-carboxamide;
N-(2-(2,4-difluorobenzyl)-4,4,4-trifluorobutyl)-1-methyl-5-oxo-4,5-dihydro-1H-1,2,4-triazole-3-carboxamide;
N-(3-(4-chloro-2-fluorophenyl)-2-cyclopropylpropyl)-1-methyl-5-oxo-4,5-dihydro-1H-1,2,4-triazole-3-carboxamide;
(*N*-(-2-cyclopropyl-3-(2,4-difluorophenyl)butyl)-6-oxo-1,6-dihydropyrimidine-2-carboxamide;
N-[2-cyclopropyl-2-methyl-3-(2,4,6-trifluorophenyl)propyl]-1-methyl-5-oxo-4H-1,2,4-triazole-3-carboxamide;
N-[2-cyclopropyl-3-(2,4-difluorophenyl)-2-methylpropyl]-5-fluoro-4-oxo-3H-pyrimidine-2-carboxamide;
5-chloro-*N*-[2-cyclopropyl-3-(2,4-difluorophenyl)-2-methylpropyl]-4-oxo-3H-pyrimidine-2-carboxamide;
N-[2-cyclopropyl-3-(4-fluorophenyl)-2-methylpropyl]-5-fluoro-4-oxo-3H-pyrimidine-2-carboxamide;
5-Chloro-N-[2-cyclopropyl-3-(4-fluorophenyl)-2-methylpropyl]-4-oxo-3H-pyrimidine-2-carboxamide;
N-(2-cyclopropyl-3-(2,4-difluorophenyl)-2-methylpropyl)-5-methyl-6-oxo-1,6-dihydropyrimidine-2-carboxamide;
N-(2-cyclopropyl-3-(4-fluorophenyl)-2-methylpropyl)-5-methyl-6-oxo-1,6-dihydropyrimidine-2-carboxamide;
N-(2-cyclopropyl-3-(2,4-difluorophenyl)-2-methylpropyl)-5-oxo-4,5-dihydro-1,2,4-oxadiazole-3-carboxamide; and
N-(2-cyclopropyl-3-(4-fluorophenyl)-2-methylpropyl)-5-oxo-4,5-dihydro-1,2,4-oxadiazole-3-carboxamide;

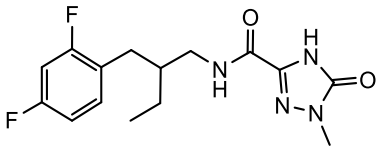
or a salt and/or solvate of any one thereof.

20. The compound or salt and/or solvate thereof according to claim 19, which is selected from the group consisting of:

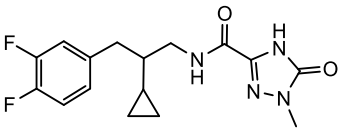
- N-(2-cyclopropyl-3-(2,4-difluorophenyl)propyl)-1-methyl-5-oxo-4,5-dihydro-1H-1,2,4-triazole-3-carboxamide:


;

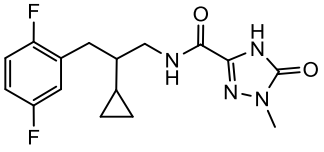
- N-(2-(2,4-difluorobenzyl)butyl)-1-methyl-5-oxo-4,5-dihydro-1H-1,2,4-triazole-3-carboxamide:


;

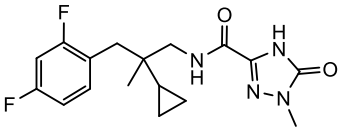
- N-(2-cyclopropyl-3-(3,4-difluorophenyl)propyl)-1-methyl-5-oxo-4,5-dihydro-1H-1,2,4-triazole-3-carboxamide:


;

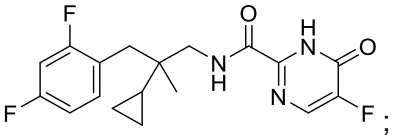
- N-(2-cyclopropyl-3-(2,5-difluorophenyl)propyl)-1-methyl-5-oxo-4,5-dihydro-1H-1,2,4-triazole-3-carboxamide:


;

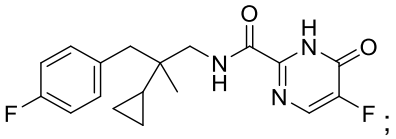
- N-(2-cyclopropyl-3-(2,4-difluorophenyl)-2-methylpropyl)-1-methyl-5-oxo-4,5-dihydro-1H-1,2,4-triazole-3-carboxamide:


;

- N-[2-cyclopropyl-3-(2,4-difluorophenyl)-2-methylpropyl]-5-fluoro-4-oxo-3H-pyrimidine-2-carboxamide:


; and

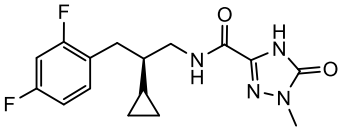
- N-[2-cyclopropyl-3-(4-fluorophenyl)-2-methylpropyl]-5-fluoro-4-oxo-3H-pyrimidine-2-carboxamide:



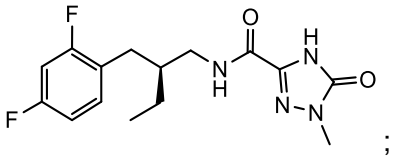
or a salt and/or solvate of any one thereof.

21. The compound or salt and/or solvate thereof according to claim 20, which is selected from the group consisting of:

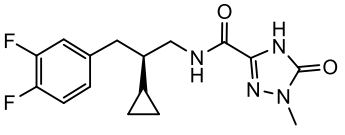
- (R)-N-(2-cyclopropyl-3-(2,4-difluorophenyl)propyl)-1-methyl-5-oxo-4,5-dihydro-1H-1,2,4-triazole-3-carboxamide:



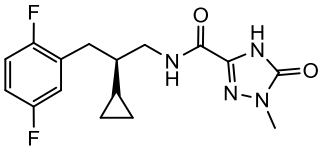
- (S)-N-(2-(2,4-difluorobenzyl)butyl)-1-methyl-5-oxo-4,5-dihydro-1H-1,2,4-triazole-3-carboxamide:



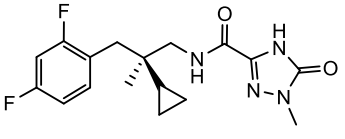
- (R)-N-(2-cyclopropyl-3-(3,4-difluorophenyl)propyl)-1-methyl-5-oxo-4,5-dihydro-1H-1,2,4-triazole-3-carboxamide:



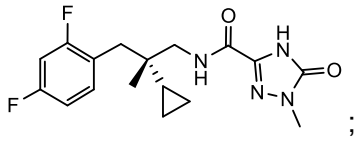
- (R)-N-(2-cyclopropyl-3-(2,5-difluorophenyl)propyl)-1-methyl-5-oxo-4,5-dihydro-1H-1,2,4-triazole-3-carboxamide:



- (R)-N-(2-cyclopropyl-3-(2,4-difluorophenyl)-2-methylpropyl)-1-methyl-5-oxo-4,5-dihydro-1H-1,2,4-triazole-3-carboxamide:

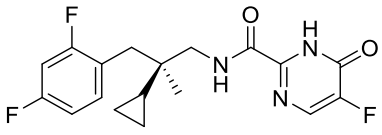


- (S)-N-(2-cyclopropyl-3-(2,4-difluorophenyl)-2-methylpropyl)-1-methyl-5-oxo-4,5-dihydro-1H-1,2,4-triazole-3-carboxamide:



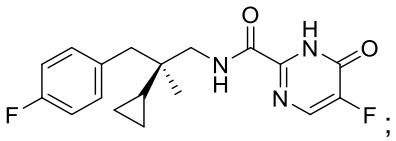
;

- N-[(2R)-2-cyclopropyl-3-(2,4-difluorophenyl)-2-methylpropyl]-5-fluoro-4-oxo-3H-pyrimidine-2-carboxamide:



; and

- (R)-N-[2-cyclopropyl-3-(4-fluorophenyl)-2-methylpropyl]-5-fluoro-4-oxo-3H-pyrimidine-2-carboxamide:



;

or a salt and/or solvate of any one thereof.

22. The compound or salt and/or solvate thereof according to any one of claims 1 to 21, which is a compound of formula (I).

23. The compound or salt and/or solvate thereof according to any one of claims 1 to 21, which is salt of a compound of formula (I).

24. The compound or salt and/or solvate thereof according to any one of claims 3 to 23, for use as a pharmaceutical.

25. A pharmaceutical composition comprising a compound of formula (I) or a pharmaceutically acceptable salt and/or solvate thereof according to any one of claims 3 to 23, and a pharmaceutically acceptable carrier or excipient.

26. Use of a compound or pharmaceutically acceptable salt and/or solvate thereof according to any one of claims 3 to 24 or a pharmaceutical composition according to claim 25 in the manufacture of a medicament for treating or preventing a disease or disorder in which inhibition of mPTP provides a therapeutic or prophylactic effect, wherein the proviso of formula (I) does not apply.

27. The use according to claim 26, wherein the disease or disorder is selected from degenerative or neurodegenerative diseases, disorders of the central nervous system, ischemia and re-perfusion injury, metabolic diseases, inflammatory or autoimmune diseases, diseases of aging, renal diseases , mitochondrial diseases, and TDP-43 diseases or disorders, including TDP-43 associated neurodegeneration.

28. The use according to claim 27, wherein the disease or disorder is selected from: Parkinson's disease, dementia with Lewy bodies, Alzheimer's disease, amyotrophic lateral sclerosis, multiple sclerosis, frontal temporal dementia, chemotherapy induced neuropathy, Huntington's disease, spinocerebellar ataxias, progressive supranuclear palsy, hereditary spastic paraplegia, Duchenne muscular dystrophy, congenital muscular dystrophy, traumatic brain injury, Friedreich's ataxia, AIDS dementia complex, depressive disorders, schizophrenia, epilepsy, acute myocardial infarction, stroke, kidney ischemia reperfusion injury, organ damage during transplantation, hepatic steatosis, diabetes, diabetic neuropathy, diabetic retinopathy, cognitive decline, obesity and feeding behaviours, non-alcoholic fatty liver disease, acute pancreatitis, systemic lupus, organ failure in sepsis, hepatitis, bone repair, bone weakness in aging in osteoporosis, sarcopenia, chronic kidney disease including chronic kidney disease associated with APOL1 genetic variants, Reye syndrome, Leber's hereditary optic neuropathy and associated disorders, frontotemporal dementia, facial onset sensory and motor neuronopathy, primary lateral sclerosis, progressive muscular atrophy, Inclusion body myopathy associated with early-onset Paget disease of the bone and Frontotemporal lobar degeneration dementia, Perry disease, chronic traumatic encephalopathy, severe traumatic brain injury, hippocampal sclerosis dementia, limbic-predominant age-related TDP-43 encephalopathy, and cerebral age-related TDP-43 with sclerosis.

29. The use according to any one of claims 26 to 28, wherein the medicament is for administration to a human subject.

30. The use according to any one of claims 26 to 29, for use in combination with a further therapeutic agent.