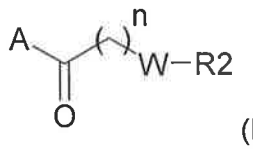
CLAIMS

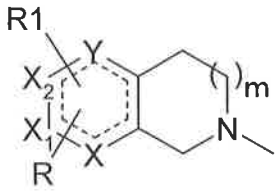
1. A compound of formula (I):



(I)

wherein:

A represents a group:



;

n represents 1 or 2;

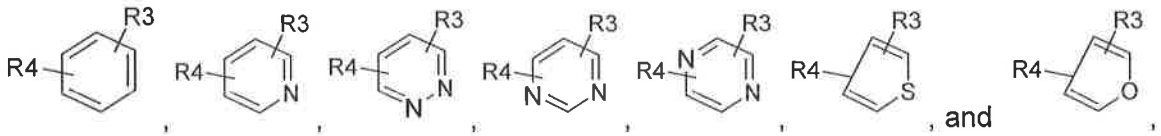
m represents 0 or 1;

Y represents a carbon, nitrogen, sulphur or oxygen atom or a single or double bond;

X and X_1 represent a carbon, nitrogen, sulphur or oxygen atom, and X_2 represents a carbon, nitrogen, or oxygen atom, wherein one or more of Y, X, X_1 and X_2 is other than a carbon atom;

R and R1, located on any one of the available positions, independently represent a hydrogen atom, a halogen atom, a (C1-C4)alkyl group, a (C1-C4)alkoxy group, a perfluoroalkyl radical, a trifluoromethoxy radical, a cyano, or a COOH, COOalkyl, CONR5R6 or NHCOR5 group;

or R1 represents a group chosen from:

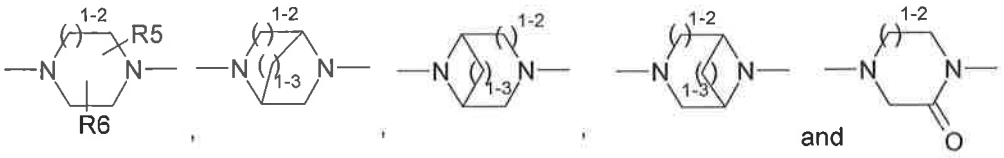


, and

the definition of R remaining unchanged;

R3 and R4, located on any one of the available positions, independently represent a hydrogen atom, a halogen atom, a (C1-C4)alkyl group, a (C1-C4)alkoxy group, a perfluoroalkyl radical, a trifluoromethoxy radical, a cyano, or a COOH, COOalkyl, CONR5R6 or NHCOR5 group;

-W- is a nitrogenous heterocycle chosen from:

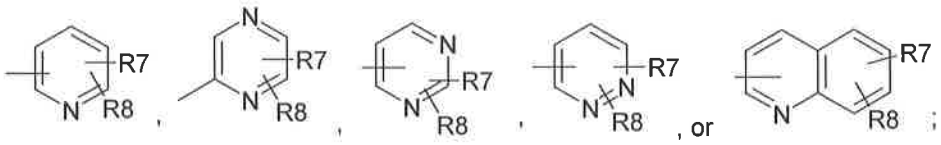


and ;

1-2 represents 1 or 2;

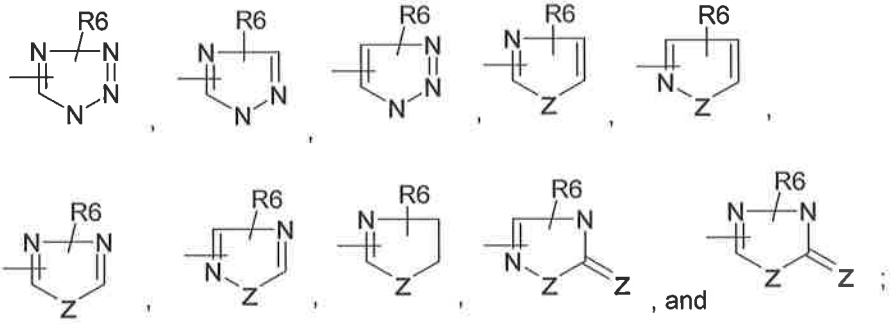
1-3 represents 1, 2 or 3;

R2 represents a group of formula:



R7 and R8, located on any one of the available positions, independently represent a hydrogen atom, a halogen atom, a (C1-C4)alkyl group, a (C1-C4)alkoxy group, a trifluoromethyl radical, a trifluoromethoxy radical, a cyano, or a COOH, COOalkyl, COOcycloalkyl, SOalkyl, SO_2alkyl, $CONH_2$, CONR5R6 or NHCOR5 group;

or one of R7 and R8 represents a heterocycle chosen from:



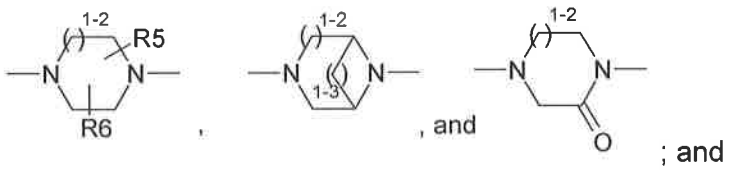
Z represents an oxygen or sulphur atom; and

R5 and R6 represent a hydrogen or a C1-C6 alkyl group;

or an acid addition salt thereof.

2. The compound according to claim 1, wherein:

W is a group of formula chosen from:



; and

R5 and R6 represent a hydrogen or a methyl group;

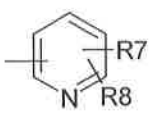
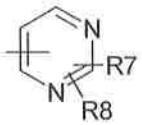
or an acid addition salt thereof.

3. The compound according to claim 1, wherein n represents 1;

or an acid addition salt thereof.

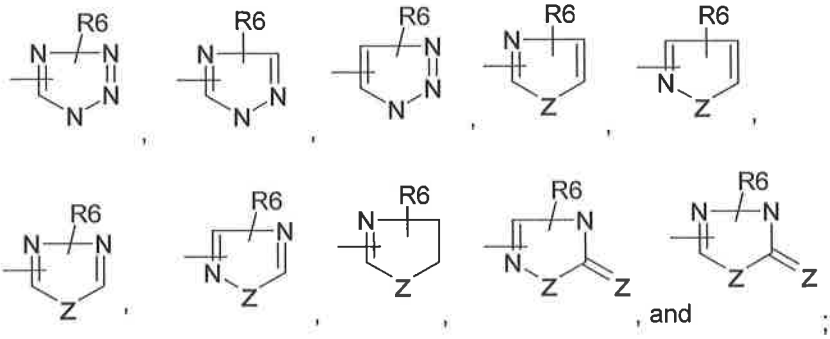
4. The compound according to claim 1, wherein

R2 represents:



; and

R7 and R8, located on any one of the available positions, independently represent a hydrogen atom, a halogen atom, a (C1-C4) alkyl group, a trifluoromethyl radical, a COOH group or a COOalkyl group;

or one of R7 and R8 represents a heterocycle chosen from:



or an acid addition salt thereof.

5. The compound according to claim 1, wherein Y represents a nitrogen atom or a single or double bond;

or an acid addition salt thereof.

6. The compound according to claim 1, wherein X and X_1 represent a carbon, nitrogen or sulphur atom, and X_2 represents a carbon or nitrogen atom, wherein one or more of X, X_1 and X_2 is other than a carbon atom;

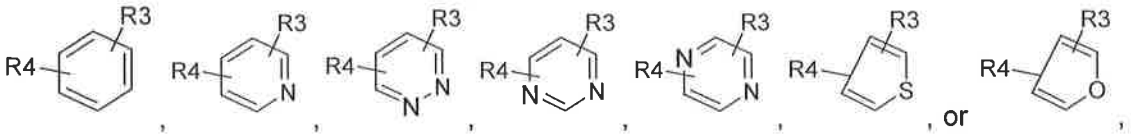
or an acid addition salt thereof.

7. The compound according to claim 1, wherein:

R and R1, located on any one of the available positions, independently represent a hydrogen atom, a halogen atom or a (C1-C4) alkyl group;

or else

R1 represents a group:



and R is a hydrogen atom; and

R3 and R4, located on any one of the available positions, represent a hydrogen atom, a halogen atom, a (C1-C4) alkoxy group or a perfluoroalkyl radical;

or an acid addition salt thereof.

8. A compound selected from the group consisting of:

- 1-(6,7-dihydro-4H-thieno[3,2-c]pyridin-5-yl)-2-[8-(5-fluoropyrimidin-2-yl)-3,8-diazabicyclo[3.2.1]oct-3-yl]ethanone;
- 2-[8-(5-fluoropyrimidin-2-yl)-3,8-diazabicyclo[3.2.1]oct-3-yl]-1-(2-phenyl-6,7-dihydro-4H-thiazolo[5,4-c]pyridin-5-yl)ethanone;
- 1-(2-chloro-7,8-dihydro-5H-[1,6]naphthyridin-6-yl)-2-[8-(5-fluoropyrimidin-2-yl)-3,8-diazabicyclo[3.2.1]oct-3-yl]ethanone;
- 2-[8-(5-fluoropyrimidin-2-yl)-3,8-diazabicyclo[3.2.1]oct-3-yl]-1-(2-phenyl-2,4,6,7-tetrahydropyrazolo[4,3-c]pyridin-5-yl)ethanone;
- 6-{3-[2-oxo-2-(2-phenyl-6,7-dihydro-4H-thiazolo[5,4-c]pyridin-5-yl)ethyl]-3,8-diazabicyclo[3.2.1]oct-8-yl}nicotinic acid methyl ester;
- 6-{(3S,5R)-3,5-dimethyl-4-[2-oxo-2-(2-phenyl-6,7-dihydro-4H-thiazolo[5,4-c]pyridin-5-yl)ethyl]piperazin-1-yl}nicotinic acid;
- 6-{3-[2-oxo-2-(2-phenyl-6,7-dihydro-4H-thiazolo[5,4-c]pyridin-5-yl)ethyl]-3,8-diazabicyclo[3.2.1]oct-8-yl}nicotinic acid;
- 6-{(3S,5R)-3,5-dimethyl-4-[2-oxo-2-(2-phenyl-6,7-dihydro-4H-thiazolo[5,4-c]pyridin-5-yl)ethyl]piperazin-1-yl}nicotinic acid;
- 2-[(2S,6R)-2,6-dimethyl-4-(5-trifluoromethylpyridin-2-yl)piperazin-1-yl]-1-(2-phenyl-6,7-dihydro-4H-thiazolo[5,4-c]pyridin-5-yl)ethanone;
- 2-[(2S,6R)-2,6-dimethyl-4-(5-trifluoromethylpyridin-2-yl)piperazin-1-yl]-1-(2-phenyl-2,4,6,7-tetrahydropyrazolo[4,3-c]pyridin-5-yl)ethanone;
- 4-[2-oxo-2-(2-phenyl-6,7-dihydro-4H-thiazolo[5,4-c]pyridin-5-yl)ethyl]-1-(5-trifluoromethylpyridin-2-yl)piperazin-2-one;
- 1-(2-phenyl-6,7-dihydro-4H-thiazolo[5,4-c]pyridin-5-yl)-2-[4-(5-trifluoromethylpyridin-2-yl)piperazin-1-yl]ethanone;
- 1-(2-phenyl-2,4,6,7-tetrahydropyrazolo[4,3-c]pyridin-5-yl)-2-[4-(5-trifluoromethylpyridin-2-yl)piperazin-1-yl]ethanone;
- 4-[2-oxo-2-(2-phenyl-2,4,6,7-tetrahydropyrazolo[4,3-c]pyridin-5-yl)ethyl]-1-(5-trifluoromethylpyridin-2-yl)piperazin-2-one;
- 2-[(2S,6R)-4-(5-fluoropyrimidin-2-yl)-2,6-dimethylpiperazin-1-yl]-1-(2-phenyl-6,7-dihydro-4H-thiazolo[5,4-c]pyridin-5-yl)ethanone;

- 2-((2S,6R)-2,6-dimethyl-4-pyrimidin-5-yl-piperazin-1-yl)-1-(2-phenyl-2,4,6,7-tetrahydropyrazolo[4,3-c]pyridin-5-yl)ethanone;
- 2-[(2S,6R)-4-(5-fluoropyrimidin-2-yl)-2,6-dimethylpiperazin-1-yl]-1-(2-phenyl-2,4,6,7-tetrahydropyrazolo[4,3-c]pyridin-5-yl)ethanone;
- 2-[(2S,6R)-2,6-dimethyl-4-(6-trifluoromethylpyridin-3-yl)piperazin-1-yl]-1-(2-phenyl-6,7-dihydro-4H-thiazolo[5,4-c]pyridin-5-yl)ethanone;
- 6-{3-[2-oxo-2-(2-phenyl-2,4,6,7-tetrahydropyrazolo[4,3-c]pyridin-5-yl)ethyl]-3,8-diazabicyclo[3.2.1]oct-8-yl}nicotinic acid methyl ester;
- 2-[(2S,6R)-2,6-dimethyl-4-(6-trifluoromethylpyridin-3-yl)piperazin-1-yl]-1-(2-phenyl-2,4,6,7-tetrahydropyrazolo[4,3-c]pyridin-5-yl)ethanone;
- 6-{(3S,5R)-3,5-dimethyl-4-[2-oxo-2-(2-phenyl-2,4,6,7-tetrahydropyrazolo[4,3-c]pyridin-5-yl)ethyl]piperazin-1-yl}nicotinic acid;
- 2-((2S,6R)-2,6-dimethyl-4-pyrimidin-5-yl-piperazin-1-yl)-1-(2-phenyl-6,7-dihydro-4H-thiazolo[5,4-c]pyridin-5-yl)ethanone;
- 6-{(3S,5R)-3,5-dimethyl-4-[2-oxo-2-(2-phenyl-2,4,6,7-tetrahydropyrazolo[4,3-c]pyridin-5-yl)ethyl]piperazin-1-yl}nicotinic acid methyl ester;
- 6-{3-[2-oxo-2-(2-phenyl-2,4,6,7-tetrahydropyrazolo[4,3-c]pyridin-5-yl)ethyl]-3,8-diazabicyclo[3.2.1]oct-8-yl}nicotinic acid;
- 6-{2-oxo-4-[2-oxo-2-(2-phenyl-6,7-dihydro-4H-thiazolo[5,4-c]pyridin-5-yl)ethyl]piperazin-1-yl}nicotinic acid methyl ester;
- 2-[8-(5-fluoropyrimidin-2-yl)-3,8-diazabicyclo[3.2.1]oct-3-yl]-1-(1-phenyl-1,4,6,7-tetrahydropyrazolo[4,3-c]pyridin-5-yl)ethanone;
- 1-(2-phenyl-2,4,6,7-tetrahydropyrazolo[4,3-c]pyridin-5-yl)-2-(4-pyridin-3-yl[1,4]diazepan-1-yl)ethanone;
- 1-(2-phenyl-2,4,6,7-tetrahydropyrazolo[4,3-c]pyridin-5-yl)-2-(8-pyridin-3-yl-3,8-diazabicyclo[3.2.1]oct-3-yl)ethanone;
- 1-(2-phenyl-2,4,6,7-tetrahydropyrazolo[4,3-c]pyridin-5-yl)-2-[8-(5-trifluoromethylpyridin-2-yl)-3,8-diazabicyclo[3.2.1]oct-3-yl]ethanone;
- 1-(2-phenyl-6,7-dihydro-4H-thiazolo[5,4-c]pyridin-5-yl)-2-(4-pyridin-3-yl-[1,4]diazepan-1-yl)ethanone;
- 1-(2-phenyl-2,4,6,7-tetrahydropyrazolo[4,3-c]pyridin-5-yl)-2-(8-pyrimidin-5-yl-3,8-diazabicyclo[3.2.1]oct-3-yl)ethanone;
- 2-[8-(5-fluoropyrimidin-2-yl)-3,8-diazabicyclo[3.2.1]oct-3-yl]-1-(2-methyl-2,4,6,7-tetrahydropyrazolo[4,3-c]pyridin-5-yl)ethanone;
- 6-{3-[2-oxo-2-(2-phenyl-4,6-dihydropyrrolo[3,4-d]thiazol-5-yl)ethyl]-3,8-diazabicyclo[3.2.1]oct-8-yl}nicotinic acid methyl ester;

- 4-{2-[2-(4-methoxyphenyl)-6,7-dihydro-4H-thiazolo[5,4-c]pyridin-5-yl]-2-oxoethyl}-1-(5-trifluoromethylpyridin-2-yl)piperazin-2-one;
- 4-{2-[2-(4-fluorophenyl)-6,7-dihydro-4H-thiazolo[5,4-c]pyridin-5-yl]-2-oxoethyl}-1-(5-trifluoromethylpyridin-2-yl)piperazin-2-one;
- 2-[8-(5-fluoropyrimidin-2-yl)-3,8-diazabicyclo[3.2.1]oct-3-yl]-1-(2-methyl-6,7-dihydro-4H-thiazolo[5,4-c]pyridin-5-yl)ethanone;
- 6-(3-{2-[2-(4-methoxyphenyl)-6,7-dihydro-4H-thiazolo[5,4-c]pyridin-5-yl]-2-oxoethyl}-3,8-diazabicyclo[3.2.1]oct-8-yl)nicotinic acid methyl ester;
- 6-(3-{2-[2-(4-fluorophenyl)-6,7-dihydro-4H-thiazolo[5,4-c]pyridin-5-yl]-2-oxoethyl}-3,8-diazabicyclo[3.2.1]oct-8-yl)nicotinic acid methyl ester;
- 6-(3-{2-oxo-2-[2-(5-trifluoromethylpyridin-2-yl)-2,4,6,7-tetrahydropyrazolo[4,3-c]pyridin-5-yl]ethyl}-3,8-diazabicyclo[3.2.1]oct-8-yl)nicotinic acid methyl ester;
- 2-[8-(5-fluoropyrimidin-2-yl)-3,8-diazabicyclo[3.2.1]oct-3-yl]-1-[2-(5-trifluoromethylpyridin-2-yl)-2,4,6,7-tetrahydropyrazolo[4,3-c]pyridin-5-yl]ethanone;
- 4-[2-oxo-2-(2-phenyl-7,8-dihydro-5H-pyrido[4,3-d]pyrimidin-6-yl)ethyl]-1-(5-trifluoromethylpyridin-2-yl)piperazin-2-one;
- 4-[2-oxo-2-(2-thiophen-3-yl-6,7-dihydro-4H-thiazolo[5,4-c]pyridin-5-yl)ethyl]-1-(5-trifluoromethylpyridin-2-yl)piperazin-2-one;
- 2-[8-(5-fluoropyrimidin-2-yl)-3,8-diazabicyclo[3.2.1]oct-3-yl]-1-[2-(4-methoxyphenyl)-2,4,6,7-tetrahydropyrazolo[4,3-c]pyridin-5-yl]ethanone;
- 6-{3-[2-oxo-2-(2-thiophen-3-yl-6,7-dihydro-4H-thiazolo[5,4-c]pyridin-5-yl)ethyl]-3,8-diazabicyclo[3.2.1]oct-8-yl}nicotinic acid;
- 2-[8-(5-fluoropyrimidin-2-yl)-3,8-diazabicyclo[3.2.1]oct-3-yl]-1-[1-(2,2,2-trifluoroethyl)-1,4,6,7-tetrahydropyrazolo[4,3-c]pyridin-5-yl]ethanone;
- 2-[8-(5-fluoropyrimidin-2-yl)-3,8-diazabicyclo[3.2.1]oct-3-yl]-1-[1-(4-methoxyphenyl)-1,4,6,7-tetrahydropyrazolo[4,3-c]pyridin-5-yl]ethanone;
- 2-[8-(5-fluoropyrimidin-2-yl)-3,8-diazabicyclo[3.2.1]oct-3-yl]-1-(2,4,6,7-tetrahydropyrazolo[4,3-c]pyridin-5-yl)ethanone;
- 6-{3-[2-oxo-2-(1-phenyl-1,4,6,7-tetrahydropyrazolo[4,3-c]pyridin-5-yl)ethyl]-3,8-diazabicyclo[3.2.1]oct-8-yl}nicotinic acid methyl ester;
- 6-{3-[2-oxo-2-(1-phenyl-1,4,6,7-tetrahydropyrazolo[4,3-c]pyridin-5-yl)ethyl]-3,8-diazabicyclo[3.2.1]oct-8-yl}nicotinic acid;
- 1-(1-tert-butyl-1,4,6,7-tetrahydropyrazolo[4,3-c]pyridin-5-yl)-2-[8-(5-fluoropyrimidin-2-yl)-3,8-diazabicyclo[3.2.1]oct-3-yl]ethanone;
- 1-[1-(4-fluorophenyl)-1,4,6,7-tetrahydropyrazolo[4,3-c]pyridin-5-yl]-2-[8-(5-fluoropyrimidin-2-yl)-3,8-diazabicyclo[3.2.1]oct-3-yl]ethanone;

- 6-{(2R,5S)-2,5-dimethyl-4-[2-oxo-2-(2-phenyl-2,4,6,7-tetrahydropyrazolo[4,3-c]pyridin-5-yl)ethyl]piperazin-1-yl}nicotinonitrile;
- 6-{(2R,5S)-2,5-dimethyl-4-[2-oxo-2-(2-phenyl-2,4,6,7-tetrahydropyrazolo[4,3-c]pyridin-5-yl)ethyl]piperazin-1-yl}nicotinic acid;
- 2-[8-(5-fluoropyrimidin-2-yl)-3,8-diazabicyclo[3.2.1]oct-3-yl]-1-(2-phenyl-4,7-dihydro-5H-dihydrofuro[2,3-c]pyridin-6-yl)ethanone;
- 2-[8-(5-fluoropyrimidin-2-yl)-3,8-diazabicyclo[3.2.1]oct-3-yl]-1-(2-phenyl-1,4,5,7-tetrahydropyrrolo[2,3-c]pyridin-6-yl)ethanone;
- 6-{8-[2-oxo-2-(2-phenyl-6,7-dihydro-4H-thiazolo[5,4-c]pyridin-5-yl)ethyl]-3,8-diazabicyclo[3.2.1]oct-3-yl}nicotinic acid methyl ester;
- 6-{8-[2-oxo-2-(2-phenyl-2,4,6,7-tetrahydropyrazolo[4,3-c]pyridin-5-yl)ethyl]-3,8-diazabicyclo[3.2.1]oct-3-yl}nicotinic acid methyl ester;
- 2-[8-(5-fluoropyrimidin-2-yl)-3,8-diazabicyclo[3.2.1]oct-3-yl]-1-(2-phenyl-6,7-dihydro-4H-oxazolo[4,5-c]pyridin-5-yl)ethanone;
- 6-{(2R,5S)-2,5-dimethyl-4-[2-oxo-2-(2-phenyl-6,7-dihydro-4H-thiazolo[5,4-c]pyridin-5-yl)ethyl]piperazin-1-yl}nicotinonitrile;
- 2-{8-[5-(5-methyl-[1,2,4]oxadiazol-3-yl)pyridin-2-yl]-3,8-diazabicyclo[3.2.1]oct-3-yl}-1-(2-phenyl-6,7-dihydro-4H-thiazolo[5,4-c]pyridin-5-yl)ethanone;
- 6-{8-[2-oxo-2-(2-phenyl-2,4,6,7-tetrahydropyrazolo[4,3-c] pyridin-5-yl)ethyl]-3,8-diazabicyclo[3.2.1]oct-3-yl}nicotinic acid;
- 6-{8-[2-oxo-2-(2-phenyl-6,7-dihydro-4H-thiazolo[5,4-c]pyridin-5-yl)ethyl]-3,8-diazabicyclo[3.2.1]oct-3-yl}nicotinic acid;
- 6-{(2R,5S)-2,5-dimethyl-4-[2-oxo-2-(2-phenyl-6,7-dihydro-4H-thiazolo[5,4-c]pyridin-5-yl)ethyl]piperazin-1-yl}nicotinic acid;
- 2-[8-(5-fluoropyrimidin-2-yl)-3,8-diazabicyclo[3.2.1]oct-3-yl]-1-(2-pyridin-4-yl-6,7-dihydro-4H-thiazolo[5,4-c]pyridin-5-yl)ethanone;
- 4-{2-oxo-2-[2-(5-trifluoromethylpyridin-2-yl)-2,4,6,7-tetrahydropyrazolo[4,3-c]pyridin-5-yl]ethyl}-1-(5-trifluoromethylpyridin-2-yl)piperazin-2-one;
- 4-{2-oxo-2-[1-(2,2,2-trifluoroethyl)-1,4,6,7-tetrahydropyrazolo [4,3-c]pyridin-5-yl]ethyl}-1-(5-trifluoromethylpyridin-2-yl)piperazin-2-one;
- 2-[8-(5-fluoropyrimidin-2-yl)-3,8-diazabicyclo[3.2.1]oct-3-yl]-1-(2-phenyl-7,8-dihydro-5H-pyrido[4,3-d]pyrimidin-6-yl)ethanone;
- 3-(6-{3-[2-oxo-2-(2-phenyl-2,4,6,7-tetrahydropyrazolo[4,3-c] pyridin-5-yl)ethyl]-3,8-diazabicyclo[3.2.1]oct-8-yl}pyridin-3-yl)-4H-[1,2,4]oxadiazol-5-one;
- 2-[8-(5-fluoropyrimidin-2-yl)-3,8-diazabicyclo[3.2.1]oct-3-yl]-1-(2-phenyl-3,4,6,7-tetrahydroimidazo[4,5-c]pyridin-5-yl)ethanone;

- 3-(6-{3-[2-oxo-2-(2-phenyl-6,7-dihydro-4H-thiazolo[5,4-c]pyridin-5-yl)ethyl]-3,8-diazabicyclo[3.2.1]oct-8-yl}pyridin-3-yl)-4H-[1,2,4]oxadiazol-5-one;
- 2-[8-(5-fluoropyrimidin-2-yl)-3,8-diazabicyclo[3.2.1]oct-3-yl]-1-(2-phenyl-6,7-dihydro-4H-thiazolo[4,5-c]pyridin-5-yl)ethanone;
- 2-{(3S,5R)-3,5-dimethyl-4-[2-oxo-2-(2-phenyl-6,7-dihydro-4H-thiazolo[5,4-c]pyridin-5-yl)ethyl]piperazin-1-yl}pyrimidine-5-carboxylic acid;
- 2-[8-(5-fluoropyrimidin-2-yl)-3,8-diazabicyclo[3.2.1]oct-3-yl]-1-(2-pyridin-3-yl-6,7-dihydro-4H-thiazolo[5,4-c]pyridin-5-yl)ethanone;
- 1-(2-phenyl-6,7-dihydro-4H-thiazolo[5,4-c]pyridin-5-yl)-2-{8-[5-(1H-tetrazol-5-yl)pyridin-2-yl]-3,8-diazabicyclo[3.2.1]oct-3-yl}ethanone;
- 2-{(3S,5R)-3,5-dimethyl-4-[2-oxo-2-(2-phenyl-2,4,6,7-tetrahydropyrazolo[4,3-c]pyridin-5-yl)ethyl]piperazin-1-yl}pyrimidine-5-carboxylic acid;
- 6-(3-{2-[2-(4-fluorophenyl)-6,7-dihydro-4H-thiazolo[5,4-c]pyridin-5-yl]-2-oxoethyl}-3,8-diazabicyclo[3.2.1]oct-8-yl)nicotinonitrile;
- 6-{3-[2-oxo-2-(2-phenyl-2,4,6,7-tetrahydropyrazolo[4,3-c]pyridin-5-yl)ethyl]-3,8-diazabicyclo[3.2.1]oct-8-yl}nicotinonitrile;
- 4-[2-oxo-2-(2-phenyl-3,4,6,7-tetrahydroimidazo[4,5-c]pyridin-5-yl)ethyl]-1-(5-trifluoromethylpyridin-2-yl)piperazin-2-one;
- 6-{(3S,5R)-3,5-dimethyl-4-[2-oxo-2-(2-phenyl-2,4,6,7-tetrahydropyrazolo[4,3-c]pyridin-5-yl)ethyl]piperazin-1-yl}nicotinic acid ethyl ester;
- 1-[2-(4-fluorophenyl)-6,7-dihydro-4H-thiazolo[5,4-c]pyridin-5-yl]-2-[8-(5-fluoropyrimidin-2-yl)-3,8-diazabicyclo[3.2.1]oct-3-yl]ethanone;
- 2-[8-(5-fluoropyrimidin-2-yl)-3,8-diazabicyclo[3.2.1]oct-3-yl]-1-[2-(4-methoxyphenyl)-6,7-dihydro-4H-thiazolo[5,4-c]pyridin-5-yl]ethanone;
- 4-[2-oxo-2-(2-phenyl-6,7-dihydro-4H-thiazolo[4,5-c]pyridin-5-yl)ethyl]-1-(5-trifluoromethylpyridin-2-yl)piperazin-2-one;
- 4-[2-oxo-2-(2-phenyl-6,7-dihydro-4H-oxazolo[4,5-c]pyridin-5-yl)ethyl]-1-(5-trifluoromethylpyridin-2-yl)piperazin-2-one;
- 4-[2-oxo-2-(2-pyridin-3-yl-6,7-dihydro-4H-thiazolo[5,4-c]pyridin-5-yl)ethyl]-1-(5-trifluoromethylpyridin-2-yl)piperazin-2-one;
- 2-{8-[5-(2-methyl-2H-tetrazol-5-yl)pyridin-2-yl]-3,8-diazabicyclo [3.2.1]oct-3-yl}-1-(2-phenyl-2,4,6,7-tetrahydropyrazolo[4,3-c]pyridin-5-yl)ethanone;
- 2-{(2S,6R)-2,6-dimethyl-4-[5-(1-methyl-1H-tetrazol-5-yl)-pyridin-2-yl]piperazin-1-yl}-1-(2-phenyl-2,4,6,7-tetrahydropyrazolo[4,3-c]pyridin-5-yl)ethanone;
- 2-{(2S,6R)-2,6-dimethyl-4-[5-(2-methyl-2H-tetrazol-5-yl)-pyridin-2-yl]piperazin-1-yl}-1-(2-phenyl-2,4,6,7-tetrahydropyrazolo[4,3-c]pyridin-5-yl)ethanone;

- 2-[8-(5-fluoropyrimidin-2-yl)-3,8-diazabicyclo[3.2.1]oct-3-yl]-1-[1-(4-trifluoromethylphenyl)-1,4,6,7-tetrahydropyrazolo[4,3-c]pyridin-5-yl]ethanone;
- 2-{(2S,6R)-2,6-dimethyl-4-[5-(5-methyl[1,2,4]oxadiazol-3-yl)-pyridin-2-yl]piperazin-1-yl}-1-(2-phenyl-2,4,6,7-tetrahydropyrazolo[4,3-c]pyridin-5-yl)ethanone;
- 2-[(2S,6R)-2,6-dimethyl-4-(5-[1,3,4]oxadiazol-2-ylpyridin-2-yl)piperazin-1-yl]-1-(2-phenyl-2,4,6,7-tetrahydropyrazolo[4,3-c]pyridin-5-yl)ethanone;
- 2-{(2S,6R)-2,6-dimethyl-4-[5-(3-methyl-[1,2,4]oxadiazol-5-yl)-pyridin-2-yl]piperazin-1-yl}-1-(2-phenyl-2,4,6,7-tetrahydropyrazolo[4,3-c]pyridin-5-yl)ethanone;
- 6-{(3S,5R)-4-[2-(1-tert-butyl-1,4,6,7-tetrahydropyrazolo[4,3-c]pyridin-5-yl)-2-oxoethyl]-3,5-dimethylpiperazin-1-yl}nicotinic acid methyl ester;
- 6-{(3S,5R)-4-[2-(1-tert-butyl-1,4,6,7-tetrahydropyrazolo[4,3-c]pyridin-5-yl)-2-oxoethyl]-3,5-dimethylpiperazin-1-yl}nicotinic acid;
- 6-{3-[2-(1-tert-butyl-1,4,6,7-tetrahydropyrazolo[4,3-c]pyridin-5-yl)-2-oxoethyl]-3,8-diazabicyclo[3.2.1]oct-8-yl}nicotinic acid;
- 2-[8-(5-fluoropyrimidin-2-yl)-3,8-diazabicyclo[3.2.1]oct-3-yl]-1-(2-phenyl-6,7-dihydro-4H-oxazolo[5,4-c]pyridin-5-yl)ethanone;
- 4-[2-oxo-2-(2-phenyl-6,7-dihydro-4H-oxazolo[5,4-c]pyridin-5-yl)ethyl]-1-(5-trifluoromethylpyridin-2-yl)piperazin-2-one;
- 2-[(2S,6R)-2,6-dimethyl-4-(5-trifluoromethylpyridin-2-yl)piperazin-1-yl]-1-(2-phenyl-4,7-dihydro-5H-furano[2,3-c]pyridin-6-yl)ethanone;
- 6-{(3S,5R)-3,5-dimethyl-4-[2-oxo-2-(2-phenyl-2,4,6,7-tetrahydropyrazolo[4,3-c]pyridin-5-yl)ethyl]piperazin-1-yl}nicotinic acid isopropyl ester;
- 1-(2-methyl-2,4,6,7-tetrahydropyrazolo[4,3-c]pyridin-5-yl)-2-[8-(5-trifluoromethylpyridin-2-yl)-3,8-diazabicyclo[3.2.1]oct-3-yl]ethanone;
- 2-[(2S,6R)-2,6-dimethyl-4-(5-trifluoromethylpyridin-2-yl)piperazin-1-yl]-1-(2-methyl-2,4,6,7-tetrahydropyrazolo[4,3-c]pyridin-5-yl)ethanone;
- 1-(2-phenyl-4,7-dihydro-5H-furano[2,3-c]pyridin-6-yl)-2-[8-(5-trifluoromethylpyridin-2-yl)-3,8-diazabicyclo[3.2.1]oct-3-yl]ethanone;
- 6-(3-{2-[2-(4-fluorophenyl)-6,7-dihydro-4H-thiazolo[5,4-c] pyridin-5-yl]-2-oxoethyl}-3,8-diazabicyclo[3.2.1]oct-8-yl)nicotinic acid;
- 2-[(2S,6R)-2,6-dimethyl-4-(5-trifluoromethylpyridin-2-yl)piperazin-1-yl]-1-[2-(5-trifluoromethylpyridin-2-yl)-2,4,6,7-tetrahydropyrazolo[4,3-c]pyridin-5-yl]ethanone;
- 2-[8-(5-trifluoromethylpyridin-2-yl)-3,8-diazabicyclo[3.2.1]oct-3-yl]-1-[2-(5-trifluoromethylpyridin-2-yl)-2,4,6,7-tetrahydropyrazolo[4,3-c]pyridin-5-yl]ethanone;
- 6-{(3S,5R)-4-[2-(2-tert-butyl-2,4,6,7-tetrahydropyrazolo[4,3-c]pyridin-5-yl)-2-oxoethyl]-3,5-dimethylpiperazin-1-yl}nicotinic acid;

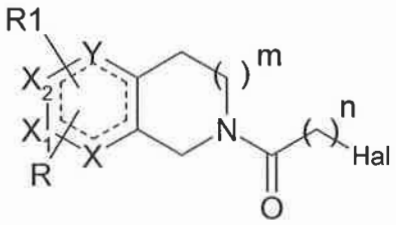
- 2-(8-pyridin-3-yl-3,8-diazabicyclo[3.2.1]oct-3-yl)-1-[2-(5-trifluoromethylpyridin-2-yl)-2,4,6,7-tetrahydropyrazolo[4,3-c]pyridin-5-yl]ethanone;
- 2-[5-(6-trifluoromethylpyridazin-3-yl)-2,5-diazabicyclo[2.2.1] hept-2-yl]-1-[2-(5-trifluoromethylpyridin-2-yl)-2,4,6,7-tetrahydropyrazolo[4,3-c] pyridin-5-yl]ethanone;
- 2-(6'-chloro-2,3,5,6-tetrahydro[1,2']bipyrazinyl-4-yl)-1-[2-(5-trifluoromethylpyridin-2-yl)-2,4,6,7-tetrahydropyrazolo[4,3-c]pyridin-5-yl]ethanone;
- 1-(2-phenyl-3,4,6,7-tetrahydroimidazo[4,5-c]pyridin-5-yl)-2-[8-(5-trifluoromethylpyridin-2-yl)-3,8-diazabicyclo[3.2.1]oct-3-yl]ethanone;
- 2-[(2S,6R)-2,6-dimethyl-4-(5-trifluoromethylpyridin-2-yl)piperazin-1-yl]-1-(2-phenyl-3,4,6,7-tetrahydroimidazo[4,5-c]pyridin-5-yl)ethanone;
- 2-((3S,5R)-3,5-dimethyl-2,3,5,6-tetrahydro[1,2']bipyrazinyl-4-yl)-1-[2-(5-trifluoromethylpyridin-2-yl)-2,4,6,7-tetrahydropyrazolo[4,3-c]pyridin-5-yl]ethanone;
- 2-[(2S,6R)-4-(5-chloropyridin-2-yl)-2,6-dimethylpiperazin-1-yl]-1-[2-(5-trifluoromethylpyridin-2-yl)-2,4,6,7-tetrahydropyrazolo[4,3-c]pyridin-5-yl]ethanone;
- 2-[4-(7-chloroquinolin-4-yl)piperazin-1-yl]-1-(2-phenyl-2,4,6,7-tetrahydropyrazolo[4,3-c]pyridin-5-yl)ethanone;
- 2-[4-(6-chloropyridin-2-yl)piperazin-1-yl]-1-(2-phenyl-2,4,6,7-tetrahydropyrazolo[4,3-c]pyridin-5-yl)ethanone;
- 1-(2-pyridin-4-yl-6,7-dihydro-4H-thiazolo[5,4-c]pyridin-5-yl)-2-[8-(5-trifluoromethylpyridin-2-yl)-3,8-diazabicyclo[3.2.1]oct-3-yl]ethanone;
- 6-{(3S,5R)-3,5-dimethyl-4-[2-oxo-2-(2-phenyl-3,4,6,7-tetrahydroimidazo[4,5-c]pyridin-5-yl)ethyl]piperazin-1-yl}nicotinic acid;
- 1-(2-pyridin-2-yl-2,4,6,7-tetrahydropyrazolo[4,3-c]pyridin-5-yl)-2-[8-(5-trifluoromethylpyridin-2-yl)-3,8-diazabicyclo[3.2.1]oct-3-yl]ethanone;
- 2-[(2S,6R)-2,6-dimethyl-4-(5-trifluoromethylpyridin-2-yl)piperazin-1-yl]-1-(2-pyridin-2-yl-2,4,6,7-tetrahydropyrazolo[4,3-c]pyridin-5-yl)ethanone;
- 4-[2-oxo-2-(2-pyridin-2-yl-2,4,6,7-tetrahydropyrazolo[4,3-c] pyridin-5-yl)ethyl]-1-(5-trifluoromethylpyridin-2-yl)piperazin-2-one;
- 4-{2-[2-(4-fluorophenyl)-3,4,6,7-tetrahydroimidazo[4,5-c]pyridin-5-yl]-2-oxoethyl}-1-(5-trifluoromethylpyridin-2-yl)piperazin-2-one;
- 2-(8-pyridin-3-yl-3,8-diazabicyclo[3.2.1]oct-3-yl)-1-(2-pyridin-2-yl-2,4,6,7-tetrahydropyrazolo[4,3-c]pyridin-5-yl)ethanone;
- 1-[2-(2,2,2-trifluoroethyl)-2,4,6,7-tetrahydropyrazolo[4,3-c]pyridin-5-yl]-2-[8-(5-trifluoromethylpyridin-2-yl)-3,8-diazabicyclo[3.2.1]oct-3-yl]ethanone;
- 1-[2-(4-fluorophenyl)-3,4,6,7-tetrahydroimidazo[4,5-c]pyridin-5-yl]-2-[8-(5-trifluoromethylpyridin-2-yl)-3,8-diazabicyclo[3.2.1]oct-3-yl]ethanone;

- 2-[(2S,6R)-2,6-dimethyl-4-(5-trifluoromethylpyridin-2-yl)piperazin-1-yl]-1-[2-(4-fluorophenyl)-3,4,6,7-tetrahydroimidazo[4,5-c]pyridin-5-yl]ethanone;
- 4-{2-oxo-2-[2-(2,2,2-trifluoroethyl)-2,4,6,7-tetrahydropyrazolo [4,3-c]pyridin-5-yl]ethyl}-1-(5-trifluoromethylpyridin-2-yl)piperazin-2-one;
- 2-[(2S,6R)-2,6-dimethyl-4-(5-trifluoromethylpyridin-2-yl)piperazin-1-yl]-1-[2-(2,2,2-trifluoroethyl)-2,4,6,7-tetrahydropyrazolo[4,3-c]pyridin-5-yl]ethanone;
- 1-(2-phenyl-2,4,6,7-tetrahydropyrazolo[4,3-c]pyridin-5-yl)-2-[5-(5-trifluoromethylpyridin-2-yl)-2,5-diazabicyclo[2.2.1]hept-2-yl]ethanone;
- 6-{3-[2-oxo-2-(2-phenyl-2,4,6,7-tetrahydropyrazolo[4,3-c]pyridin-5-yl)ethyl]-3,8-diazabicyclo[3.2.1]oct-8-yl}nicotinic acid cyclobutyl ester;
- 2-((2S,6R)-2,6-dimethyl-4-quinolin-2-ylpiperazin-1-yl)-1-(2-phenyl-2,4,6,7-tetrahydropyrazolo[4,3-c]pyridin-5-yl)ethanone;
- 6-{(3S,5R)-3,5-dimethyl-4-[2-oxo-2-(2-phenyl-2,4,6,7-tetrahydropyrazolo[4,3-c]pyridin-5-yl)ethyl]piperazin-1-yl}nicotinic acid ethyl ester;
- 2-[(2S,6R)-4-(5-methanesulphonylpyridin-2-yl)-2,6-dimethylpiperazin-1-yl]-1-(2-phenyl-2,4,6,7-tetrahydropyrazolo[4,3-c]pyridin-5-yl)ethanone;
- 2-[(2S,6R)-4-(5-fluoropyrimidin-2-yl)-2,6-dimethylpiperazin-1-yl]-1-[2-(4-methoxyphenyl)-6,7-dihydro-4H-thiazolo[5,4-c]pyridin-5-yl]ethanone;
- 1-[2-(4-methoxyphenyl)-6,7-dihydro-4H-thiazolo[5,4-c]pyridin-5-yl]-2-[5-(5-trifluoromethylpyridin-2-yl)-2,5-diazabicyclo[2.2.1]hept-2-yl]ethanone;
- 1-(2-phenyl-6,7-dihydro-4H-thiazolo[5,4-c]pyridin-5-yl)-2-{4-[5-(2H-pyrazol-3-yl)pyridin-2-yl]piperazin-1-yl}ethanone;
- 2-[(2S,6R)-2,6-dimethyl-4-(5-thiazol-2-ylpyridin-2-yl)piperazin-1-yl]-1-(2-phenyl-2,4,6,7-tetrahydropyrazolo[4,3-c]pyridin-5-yl)ethanone;
- 1-(2-phenyl-6,7-dihydro-4H-thiazolo[5,4-c]pyridin-5-yl)-2-[8-(5-thiazol-2-ylpyridin-2-yl)-3,8-diazabicyclo[3.2.1]oct-3-yl]ethanone;
- 2-[8-(5-[1,2,4]oxadiazol-3-ylpyridin-2-yl)-3,8-diazabicyclo [3.2.1]oct-3-yl]-1-(2-phenyl-2,4,6,7-tetrahydropyrazolo[4,3-c]pyridin-5-yl)ethanone;
- 1-(2-ethyl-2,4,6,7-tetrahydropyrazolo[4,3-c]pyridin-5-yl)-2-[8-(5-trifluoromethylpyridin-2-yl)-3,8-diazabicyclo[3.2.1]oct-3-yl]ethanone;
- 2-[(2S,6R)-2,6-dimethyl-4-(5-[1,2,4]oxadiazol-5-ylpyridin-2-yl)piperazin-1-yl]-1-(2-phenyl-2,4,6,7-tetrahydropyrazolo[4,3-c]pyridin-5-yl)ethanone;
- 6-{(3S,5R)-3,5-dimethyl-4-[2-oxo-2-(2-pyridin-2-yl-2,4,6,7-tetrahydropyrazolo[4,3-c]pyridin-5-yl)ethyl]piperazin-1-yl}nicotinic acid;
- 2-((2S,6R)-2,6-dimethyl-4-pyridin-3-ylpiperazin-1-yl)-1-(2-pyridin-4-yl-2,4,6,7-tetrahydropyrazolo[4,3-c]pyridin-5-yl)ethanone;

- 2-((2S,6R)-2,6-dimethyl-4-pyridin-3-ylpiperazin-1-yl)-1-[2-(5-fluoropyridin-2-yl)-2,4,6,7-tetrahydropyrazolo[4,3-c]pyridin-5-yl]ethanone;
- 2-((2S,6R)-2,6-dimethyl-4-pyridin-3-ylpiperazin-1-yl)-1-[2-(5-trifluoromethylpyridin-2-yl)-2,4,6,7-tetrahydropyrazolo[4,3-c]pyridin-5-yl]ethanone;
- 6-{(3S,5R)-3,5-dimethyl-4-[2-oxo-2-(2-pyridin-2-yl-2,4,6,7-tetrahydropyrazolo[4,3-c]pyridin-5-yl)ethyl]piperazin-1-yl}nicotinic acid methyl ester;
- 2-((2S,6R)-2,6-dimethyl-4-pyridin-3-ylpiperazin-1-yl)-1-(2-phenyl-3,4,6,7-tetrahydroimidazo[4,5-c]pyridin-5-yl)ethanone;
- 2-[(2S,6R)-2,6-dimethyl-4-(5-trifluoromethylpyridin-2-yl)piperazin-1-yl]-1-(2-pyridazin-3-yl-2,4,6,7-tetrahydropyrazolo[4,3-c]pyridin-5-yl)ethanone;
- 2-[(2S,6R)-2,6-dimethyl-4-(5-trifluoromethylpyridin-2-yl)piperazin-1-yl]-1-(2-ethyl-2,4,6,7-tetrahydropyrazolo[4,3-c]pyridin-5-yl)ethanone; and
- 4-[2-(2-ethyl-2,4,6,7-tetrahydropyrazolo[4,3-c]pyridin-5-yl)-2-oxoethyl]-1-(5-trifluoromethylpyridin-2-yl)piperazin-2-one;

or an acid addition salt thereof.

9. A process for preparing a compound of formula (I) according to claim 1, comprising reacting a compound of formula (II):



(II)

wherein Y, X, X1, X2, R1, R, n and m are defined according to claim 1 and Hal represents a halogen atom,

with a compound of general formula (III):

H-W-R2

(III)

wherein W and R2 are as defined in claim 1.

10. A pharmaceutical composition comprising a compound of formula (I) according to claim 1, or a pharmaceutically acceptable salt thereof, and one or more pharmaceutically acceptable excipients.

11. A pharmaceutical composition comprising a compound according to claim 2, or a pharmaceutically acceptable salt thereof, and one or more pharmaceutically acceptable excipients.

12. A pharmaceutical composition comprising a compound according to claim 3, or a pharmaceutically acceptable salt thereof, and one or more pharmaceutically acceptable excipients.

13. A pharmaceutical composition comprising a compound according to claim 4, or a pharmaceutically acceptable salt thereof, and one or more pharmaceutically acceptable excipients.

14. A pharmaceutical composition comprising a compound according to claim 5, or a pharmaceutically acceptable salt thereof, and one or more pharmaceutically acceptable excipients.

15. A pharmaceutical composition comprising a compound according to claim 6, or a pharmaceutically acceptable salt thereof, and one or more pharmaceutically acceptable excipients.

16. A pharmaceutical composition comprising a compound according to claim 7, or a pharmaceutically acceptable salt thereof, and one or more pharmaceutically acceptable excipients.

17. A pharmaceutical composition comprising a compound of formula (I) according to claim 8, or a pharmaceutically acceptable salt thereof, and one or more pharmaceutically acceptable excipients.

18. The compound according to claim 1 which is selected from the group consisting of:

- 6-{(3S,5R)-3,5-dimethyl-4-[2-oxo-2-(2-phenyl-2,4,6,7-tetrahydropyrazolo[4,3-c]pyridin-5-yl)ethyl]piperazin-1-yl}nicotinic acid;
- 6-{(3S,5R)-3,5-dimethyl-4-[2-oxo-2-(2-phenyl-2,4,6,7-tetrahydropyrazolo[4,3-c]pyridin-5-yl)ethyl]piperazin-1-yl}nicotinic acid methyl ester;
- 6-{(3S,5R)-3,5-dimethyl-4-[2-oxo-2-(2-phenyl-2,4,6,7-tetrahydropyrazolo[4,3-c]pyridin-5-yl)ethyl]piperazin-1-yl}nicotinic acid ethyl ester; and
- 6-{(3S,5R)-3,5-dimethyl-4-[2-oxo-2-(2-phenyl-2,4,6,7-tetrahydropyrazolo[4,3-c]pyridin-5-yl)ethyl]piperazin-1-yl}nicotinic acid isopropyl ester;

or an acid addition salt thereof.

19. The compound according to claim 1 which is 6-{(3S,5R)-3,5-dimethyl-4-[2-oxo-2-(2-phenyl-2,4,6,7-tetrahydropyrazolo[4,3-c]pyridin-5-yl)ethyl]piperazin-1-yl}nicotinic acid or an acid addition salt thereof.

20. The compound according to claim 1 which is 6-{(3S,5R)-3,5-dimethyl-4-[2-oxo-2-(2-phenyl-2,4,6,7-

tetrahydropyrazolo[4,3-c]pyridin-5-yl)ethyl]piperazin-1-yl}nicotinic acid hydrochloride.

21. The compound according to claim 1 which is 2-[(2S,6R)-2,6-dimethyl-4-(5-trifluoromethylpyridin-2-yl)piperazin-1-yl]-1-(2-phenyl-6,7-dihydro-4H-thiazolo[5,4-c]pyridin-5-yl)ethanone or an acid addition salt thereof.

22. The compound according to claim 1 which is 4-[2-oxo-2-(2-phenyl-6,7-dihydro-4H-thiazolo[5,4-c]pyridin-5-yl)ethyl]-1-(5-trifluoromethylpyridin-2-yl)piperazin-2-one or an acid addition salt thereof.

23. The compound according to claim 1 which is 6-{3-[2-oxo-2-(2-phenyl-2,4,6,7-tetrahydropyrazolo[4,3-c]pyridin-5-yl)ethyl]-3,8-diazabicyclo[3.2.1]oct-8-yl}nicotinic acid methyl ester or an acid addition salt thereof.

24. A pharmaceutical composition comprising a compound according to claim 18, or a pharmaceutically acceptable salt thereof, and one or more pharmaceutically acceptable excipients.

25. A pharmaceutical composition comprising a compound according to claim 19, or a pharmaceutically acceptable salt thereof, and one or more pharmaceutically acceptable excipients.

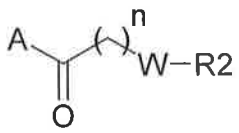
26. A pharmaceutical composition comprising a compound according to claim 20 and one or more pharmaceutically acceptable excipients.

27. A pharmaceutical composition comprising a compound according to claim 21, or a pharmaceutically acceptable salt thereof, and one or more pharmaceutically acceptable excipients.

28. A pharmaceutical composition comprising a compound according to claim 22, or a pharmaceutically acceptable salt thereof, and one or more pharmaceutically acceptable excipients.

29. A pharmaceutical composition comprising a compound according to claim 23, or a pharmaceutically acceptable salt thereof, and one or more pharmaceutically acceptable excipients.

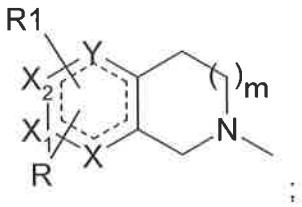
30. A compound of formula (I):



(I)

wherein:

A represents a group:



;

n represents 1 or 2;

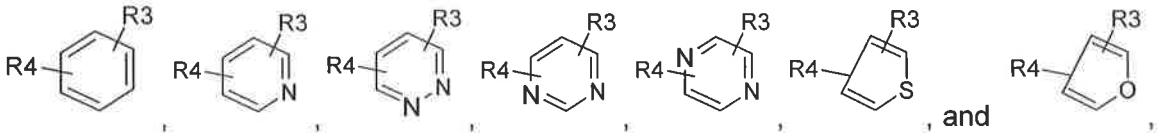
m represents 0 or 1;

Y represents a carbon, nitrogen, sulphur or oxygen atom or a single or double bond;

X, X_1 and X_2 represent a carbon, nitrogen, sulphur or oxygen atom, wherein one or more of X, X_1 and X_2 is other than a carbon atom;

R and R1, located on any one of the available positions, independently represent a hydrogen atom, a halogen atom, a (C1-C4)alkyl group, a (C1-C4)alkoxy group, a perfluoroalkyl radical, a trifluoromethoxy radical, a cyano, or a COOH, COOalkyl, CONR5R6 or NHCOR5 group;

or R1 represents a group chosen from:



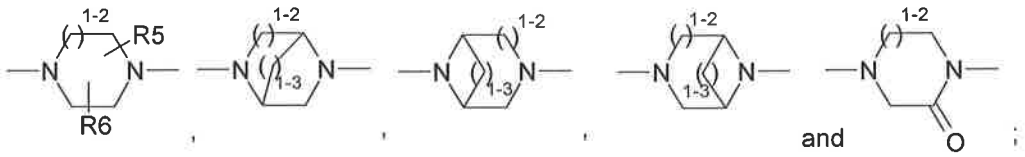
, and

,

the definition of R remaining unchanged;

R3 and R4, located on any one of the available positions, independently represent a hydrogen atom, a halogen atom, a (C1-C4)alkyl group, a (C1-C4)alkoxy group, a perfluoroalkyl radical, a trifluoromethoxy radical, a cyano, or a COOH, COOalkyl, CONR5R6 or NHCOR5 group;

-W- is a nitrogenous heterocycle chosen from:



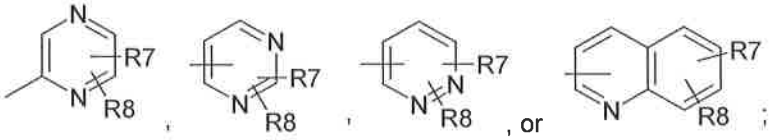
and

;

1-2 represents 1 or 2;

1-3 represents 1, 2 or 3;

R2 represents a group of formula:

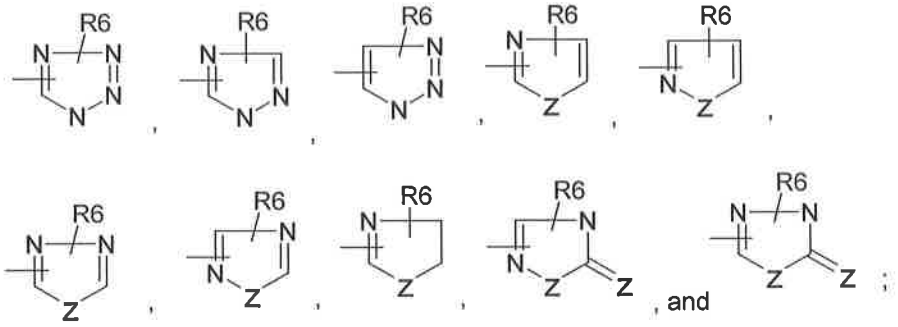


, or

;

R7 and R8, located on any one of the available positions, independently represent a hydrogen atom, a halogen atom, a (C1-C4)alkyl group, a (C1-C4)alkoxy group, a trifluoromethyl radical, a trifluoromethoxy radical, a cyano, or a COOH, COOalkyl, COOcycloalkyl, SOalkyl, SO_2alkyl, $CONH_2$, CONR5R6 or NHCOR5 group;

or one of R7 and R8 represents a heterocycle chosen from:



Z represents an oxygen or sulphur atom; and

R5 and R6 represent a hydrogen or a C1-C6 alkyl group;

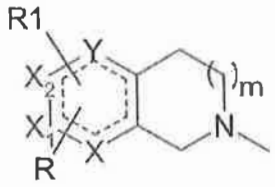
or an acid addition salt thereof.

CLAIMS

1. Compound corresponding to formula (I):

in which:

- A represents a group:



- n represents 1 or 2;

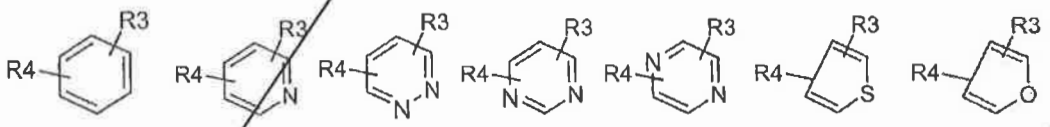
- m represents 0 or 1;

- Y represents a carbon, nitrogen, sulphur or oxygen atom or a single or double bond;

- X, X_1 and X_2 represent a carbon, nitrogen, sulphur or oxygen atom, it being understood that at least one of X, X_1 and X_2 is other than a carbon atom;

- R and R1, located on any one of the available positions, independently represent a hydrogen atom, a halogen atom, a (C1-C4)alkyl group, a (C1-C4)alkoxy group, a perfluoroalkyl radical, a trifluoromethoxy radical, a cyano, or a COOH, COOalkyl, CONR5R6 or NHCOR5 group;

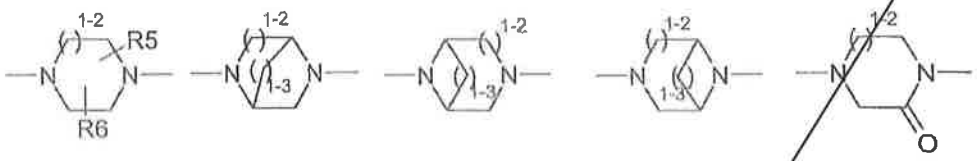
or R1 represents a group chosen from:



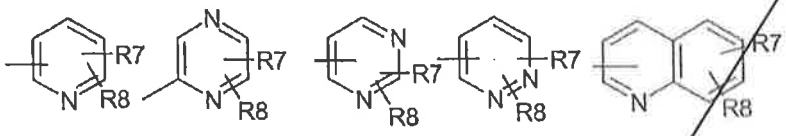
the definition of R remaining unchanged;

- R3 and R4, located on any one of the available positions, independently represent a hydrogen atom, a halogen atom, a (C1-C4)alkyl group, a (C1-C4)alkoxy group, a perfluoroalkyl radical, a trifluoromethoxy radical, a cyano, or a COOH, COOalkyl, CONR5R6 or NHCOR5 group;

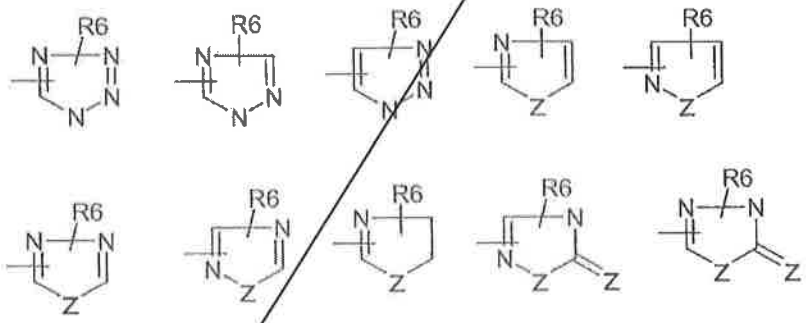
- -W- is a nitrogenous heterocycle chosen from:



- 1-2 represents 1 or 2;
- 1-3 represents 1, 2 or 3;
- R2 represents a group of formula:

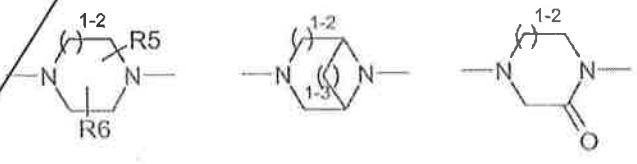


- R7 and R8, located on any one of the available positions, independently represent a hydrogen atom, a halogen atom, a (C1-C4)alkyl group, a (C1-C4)alkoxy group, a trifluoromethyl radical, a trifluoromethoxy radical, a cyano, or a COOH, COOalkyl, COOcycloalkyl, SOalkyl, SO_2alkyl, $CONH_2$, CONR5R6 or NHCOR5 group;
or one of R7 and R8 represents a heterocycle chosen from:



- Z represents an oxygen or sulphur atom;
- R5 and R6 represent a hydrogen or a C1-C6 alkyl group;
in the form of a base or of an addition salt with an acid.

2. Compound according to Claim 1, such that:
- W is a group of formula chosen from:



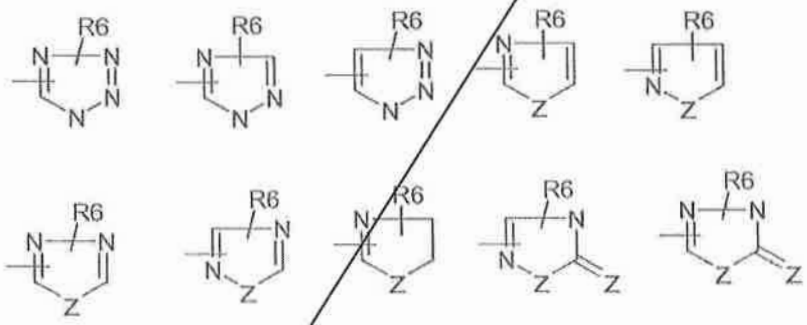
- R5 and R6 represent a hydrogen or a methyl group;
in the form of a base or of an addition salt with an acid.

3. Compound according to Claim 1 or 2, such that n represents 1;
in the form of a base or of an addition salt with an acid.

4. Compound according to any one of Claims 1 to 3, such that:
- R2 represents:



- R7 and R8, located on any one of the available positions, independently represent a hydrogen atom, a halogen atom, a (C1-C4) alkyl group, a trifluoromethyl radical, a COOH group or a COOalkyl group;
or one of R7 and R8 represents a heterocycle chosen from:



in the form of a base or of an addition salt with an acid.

5. Compound according to any one of Claims 1 to 4, such that Y represents a nitrogen atom or a single or double bond;
in the form of a base or of an addition salt with an acid.

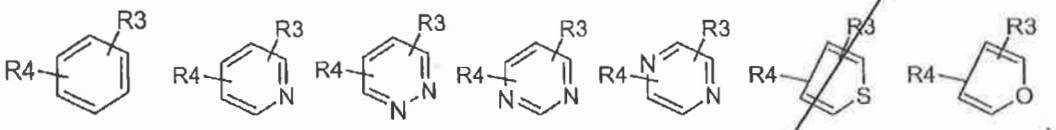
6. Compound according to any one of Claims 1 to 5, such that X, X_1 and X_2 represent a carbon, nitrogen or sulphur atom, it being understood that at least one of X, X_1 and X_2 is other than a carbon atom;
in the form of a base or of an addition salt with an acid.

7. Compound according to any one of Claims 1 to 6, such that:

- R and R1, located on any one of the available positions, independently represent a hydrogen atom, a halogen atom or a (C1-C4) alkyl group;

or else

R1 represents a group:



and R is a hydrogen atom;

- R3 and R4, located on any one of the available positions, represent a hydrogen atom, a halogen atom, a (C1-C4) alkoxy group or a perfluoroalkyl radical;

in the form of a base or of an addition salt with an acid.

8. Compound according to any one of the preceding claims, chosen from:

- Compound No. 1: 1-(6,7-dihydro-4H-thieno[3,2-c]pyridin-5-yl)-2-[8-(5-fluoropyrimidin-2-yl)-3,8-diazabicyclo[3.2.1]oct-3-yl]ethanone;
- Compound No. 2: 2-[8-(5-fluoropyrimidin-2-yl)-3,8-diazabicyclo[3.2.1]oct-3-yl]-1-(2-phenyl-6,7-dihydro-4H-thiazolo[5,4-c]pyridin-5-yl)ethanone;
- Compound No. 3: 1-(2-chloro-7,8-dihydro-5H-[1,6]naphthyridin-6-yl)-2-[8-(5-fluoropyrimidin-2-yl)-3,8-diazabicyclo[3.2.1]oct-3-yl]ethanone;
- Compound No. 4: 2-[8-(5-fluoropyrimidin-2-yl)-3,8-diazabicyclo[3.2.1]oct-3-yl]-1-(2-phenyl-2,4,6,7-tetrahydropyrazolo[4,3-c]pyridin-5-yl)ethanone;
- Compound No. 5: 6-{3-[2-oxo-2-(2-phenyl-6,7-dihydro-4H-thiazolo[5,4-c]pyridin-5-yl)ethyl]-3,8-diazabicyclo[3.2.1]oct-8-yl}nicotinic acid methyl ester;
- Compound No. 6: 6-{(3S,5R)-3,5-dimethyl-4-[2-oxo-2-(2-phenyl-6,7-dihydro-4H-thiazolo[5,4-c]pyridin-5-yl)ethyl]piperazin-1-yl}nicotinic acid;
- Compound No. 7: 6-{3-[2-oxo-2-(2-phenyl-6,7-dihydro-4H-thiazolo[5,4-c]pyridin-5-yl)ethyl]-3,8-diazabicyclo[3.2.1]oct-8-yl}nicotinic acid;
- Compound No. 8: 6-{(3S,5R)-3,5-dimethyl-4-[2-oxo-2-(2-phenyl-6,7-dihydro-4H-thiazolo[5,4-c]pyridin-5-yl)ethyl]piperazin-1-yl}nicotinic acid;
- Compound No. 9: 2-[(2S,6R)-2,6-dimethyl-4-(5-trifluoromethylpyridin-2-yl)piperazin-1-yl]-1-(2-phenyl-6,7-dihydro-4H-thiazolo[5,4-c]pyridin-5-yl)ethanone;
- Compound No. 10: 2-[(2S,6R)-2,6-dimethyl-4-(5-trifluoromethylpyridin-2-yl)piperazin-

1-yl]-1-(2-phenyl-2,4,6,7-tetrahydropyrazolo[4,3-c]pyridin-5-yl)ethanone;

- Compound No. 11: 4-[2-oxo-2-(2-phenyl-6,7-dihydro-4H-thiazolo[5,4-c]pyridin-5-yl)ethyl]-1-(5-trifluoromethylpyridin-2-yl)piperazin-2-one;
- Compound No. 12: 1-(2-phenyl-6,7-dihydro-4H-thiazolo[5,4-c]pyridin-5-yl)-2-[4-(5-trifluoromethylpyridin-2-yl)piperazin-1-yl]ethanone;
- Compound No. 13: 1-(2-phenyl-2,4,6,7-tetrahydropyrazolo[4,3-c]pyridin-5-yl)-2-[4-(5-trifluoromethylpyridin-2-yl)piperazin-1-yl]ethanone;
- Compound No. 14: 4-[2-oxo-2-(2-phenyl-2,4,6,7-tetrahydropyrazolo[4,3-c]pyridin-5-yl)ethyl]-1-(5-trifluoromethylpyridin-2-yl)piperazin-2-one;
- Compound No. 15: 2-[(2S,6R)-4-(5-fluoropyrimidin-2-yl)-2,6-dimethylpiperazin-1-yl]-1-(2-phenyl-6,7-dihydro-4H-thiazolo[5,4-c]pyridin-5-yl)ethanone;
- Compound No. 16: 2-((2S,6R)-2,6-dimethyl-4-pyrimidin-5-yl-piperazin-1-yl)-1-(2-phenyl-2,4,6,7-tetrahydropyrazolo[4,3-c]pyridin-5-yl)ethanone;
- Compound No. 17: 2-[(2S,6R)-4-(5-fluoropyrimidin-2-yl)-2,6-dimethylpiperazin-1-yl]-1-(2-phenyl-2,4,6,7-tetrahydropyrazolo[4,3-c]pyridin-5-yl)ethanone;
- Compound No. 18: 2-[(2S,6R)-2,6-dimethyl-4-(6-trifluoromethylpyridin-3-yl)piperazin-1-yl]-1-(2-phenyl-6,7-dihydro-4H-thiazolo[5,4-c]pyridin-5-yl)ethanone;
- Compound No. 19: 6-{3-[2-oxo-2-(2-phenyl-2,4,6,7-tetrahydropyrazolo[4,3-c]pyridin-5-yl)ethyl]-3,8-diazabicyclo[3.2.1]oct-8-yl}nicotinic acid methyl ester;
- Compound No. 20: 2-[(2S,6R)-2,6-dimethyl-4-(6-trifluoromethylpyridin-3-yl)piperazin-1-yl]-1-(2-phenyl-2,4,6,7-tetrahydropyrazolo[4,3-c]pyridin-5-yl)ethanone;
- Compound No. 21: 6-{(3S,5R)-3,5-dimethyl-4-[2-oxo-2-(2-phenyl-2,4,6,7-tetrahydropyrazolo[4,3-c]pyridin-5-yl)ethyl]piperazin-1-yl}nicotinic acid;
- Compound No. 22: 2-((2S,6R)-2,6-dimethyl-4-pyrimidin-5-yl-piperazin-1-yl)-1-(2-phenyl-6,7-dihydro-4H-thiazolo[5,4-c]pyridin-5-yl)ethanone;
- Compound No. 23: 6-{(3S,5R)-3,5-dimethyl-4-[2-oxo-2-(2-phenyl-2,4,6,7-tetrahydropyrazolo[4,3-c]pyridin-5-yl)ethyl]piperazin-1-yl}nicotinic acid methyl ester;
- Compound No. 24: 6-{3-[2-oxo-2-(2-phenyl-2,4,6,7-tetrahydropyrazolo[4,3-c]pyridin-5-yl)ethyl]-3,8-diazabicyclo[3.2.1]oct-8-yl}nicotinic acid;
- Compound No. 25: 6-{2-oxo-4-[2-oxo-2-(2-phenyl-6,7-dihydro-4H-thiazolo[5,4-c]pyridin-5-yl)ethyl]piperazin-1-yl}nicotinic acid methyl ester;
- Compound No. 26: 2-[8-(5-fluoropyrimidin-2-yl)-3,8-diazabicyclo[3.2.1]oct-3-yl]-1-(1-phenyl-1,4,6,7-tetrahydropyrazolo[4,3-c]pyridin-5-yl)ethanone;
- Compound No. 27: 1-(2-phenyl-2,4,6,7-tetrahydropyrazolo[4,3-c]pyridin-5-yl)-2-(4-

pyridin-3-yl[1,4]diazepan-1-yl)ethanone;

- Compound No. 28: 1-(2-phenyl-2,4,6,7-tetrahydropyrazolo[4,3-c]pyridin-5-yl)-2-(8-pyridin-3-yl-3,8-diazabicyclo[3.2.1]oct-3-yl)ethanone;
- Compound No. 29: 1-(2-phenyl-2,4,6,7-tetrahydropyrazolo[4,3-c]pyridin-5-yl)-2-[8-(5-trifluoromethylpyridin-2-yl)-3,8-diazabicyclo[3.2.1]oct-3-yl]ethanone;
- Compound No. 30: 1-(2-phenyl-6,7-dihydro-4H-thiazolo[5,4-c]pyridin-5-yl)-2-(4-pyridin-3-yl-[1,4]diazepan-1-yl)ethanone;
- Compound No. 31: 1-(2-phenyl-2,4,6,7-tetrahydropyrazolo[4,3-c]pyridin-5-yl)-2-(8-pyrimidin-5-yl-3,8-diazabicyclo[3.2.1]oct-3-yl)ethanone;
- Compound No. 32: 2-[8-(5-fluoropyrimidin-2-yl)-3,8-diazabicyclo[3.2.1]oct-3-yl]-1-(2-methyl-2,4,6,7-tetrahydropyrazolo[4,3-c]pyridin-5-yl)ethanone;
- Compound No. 33: 6-{3-[2-oxo-2-(2-phenyl-4,6-dihydropyrrolo[3,4-d]thiazol-5-yl)ethyl]-3,8-diazabicyclo[3.2.1]oct-8-yl}nicotinic acid methyl ester;
- Compound No. 34: 4-{2-[2-(4-methoxyphenyl)-2,4,6,7-tetrahydropyrazolo[4,3-c]pyridin-5-yl]-2-oxoethyl}-1-(5-trifluoromethylpyridin-2-yl)piperazin-2-one;
- Compound No. 35: 4-{2-[2-(4-fluorophenyl)-2,4,6,7-tetrahydropyrazolo[4,3-c]pyridin-5-yl]-2-oxoethyl}-1-(5-trifluoromethylpyridin-2-yl)piperazin-2-one;
- Compound No. 36: 2-[8-(5-fluoropyrimidin-2-yl)-3,8-diazabicyclo[3.2.1]oct-3-yl]-1-(2-methyl-6,7-dihydro-4H-thiazolo[5,4-c]pyridin-5-yl)ethanone;
- Compound No. 37: 6-(3-{2-[2-(4-methoxyphenyl)-6,7-dihydro-4H-thiazolo[5,4-c]pyridin-5-yl]-2-oxoethyl}-3,8-diazabicyclo[3.2.1]oct-8-yl)nicotinic acid methyl ester;
- Compound No. 38: 6-(3-{2-[2-(4-fluorophenyl)-6,7-dihydro-4H-thiazolo[5,4-c]pyridin-5-yl]-2-oxoethyl}-3,8-diazabicyclo[3.2.1]oct-8-yl)nicotinic acid methyl ester;
- Compound No. 39: 6-(3-{2-oxo-2-[2-(5-trifluoromethylpyridin-2-yl)-2,4,6,7-tetrahydropyrazolo[4,3-c]pyridin-5-yl]ethyl}-3,8-diazabicyclo[3.2.1]oct-8-yl)nicotinic acid methyl ester;
- Compound No. 40: 2-[8-(5-fluoropyrimidin-2-yl)-3,8-diazabicyclo[3.2.1]oct-3-yl]-1-[2-(5-trifluoromethylpyridin-2-yl)-2,4,6,7-tetrahydropyrazolo[4,3-c]pyridin-5-yl]ethanone;
- Compound No. 41: 4-[2-oxo-2-(2-phenyl-7,8-dihydro-5H-pyrido[4,3-d]pyrimidin-6-yl)ethyl]-1-(5-trifluoromethylpyridin-2-yl)piperazin-2-one;
- Compound No. 42: 4-[2-oxo-2-(2-thiophen-3-yl-6,7-dihydro-4H-thiazolo[5,4-c]pyridin-5-yl)ethyl]-1-(5-trifluoromethylpyridin-2-yl)piperazin-2-one;

Compound No. 43: 2-[8-(5-fluoropyrimidin-2-yl)-3,8-diazabicyclo[3.2.1]oct-3-yl]-1-[2-(4-methoxyphenyl)-2,4,6,7-tetrahydropyrazolo[4,3-c]pyridin-5-yl]ethanone;

- Compound No. 44: 6-{3-[2-oxo-2-(2-thiophen-3-yl-6,7-dihydro-4H-thiazolo[5,4-c]pyridin-5-yl)ethyl]-3,8-diazabicyclo[3.2.1]oct-8-yl}nicotinic acid;
- Compound No. 45: 2-[8-(5-fluoropyrimidin-2-yl)-3,8-diazabicyclo[3.2.1]oct-3-yl]-1-[1-(2,2,2-trifluoroethyl)-4,5,6,7-tetrahydro-1H-indazol-5-yl]ethanone;
- Compound No. 46: 2-[8-(5-fluoropyrimidin-2-yl)-3,8-diazabicyclo[3.2.1]oct-3-yl]-1-[1-(4-methoxyphenyl)-1,4,6,7-tetrahydropyrazolo[4,3-c]pyridin-5-yl]ethanone;
- Compound No. 47: 2-[8-(5-fluoropyrimidin-2-yl)-3,8-diazabicyclo[3.2.1]oct-3-yl]-1-(2,4,6,7-tetrahydropyrazolo[4,3-c]pyridin-5-yl)ethanone;
- Compound No. 48: 6-{3-[2-oxo-2-(1-phenyl-1,4,6,7-tetrahydropyrazolo[4,3-c]pyridin-5-yl)ethyl]-3,8-diazabicyclo[3.2.1]oct-8-yl}nicotinic acid methyl ester;
- Compound No. 49: 6-{3-[2-oxo-2-(1-phenyl-1,4,6,7-tetrahydropyrazolo[4,3-c]pyridin-5-yl)ethyl]-3,8-diazabicyclo[3.2.1]oct-8-yl}nicotinic acid;
- Compound No. 50: 1-(1-tert-butyl-1,4,6,7-tetrahydropyrazolo[4,3-c]pyridin-5-yl)-2-[8-(5-fluoropyrimidin-2-yl)-3,8-diazabicyclo[3.2.1]oct-3-yl]ethanone;
- Compound No. 51: 1-[1-(4-fluorophenyl)-1,4,6,7-tetrahydropyrazolo[4,3-c]pyridin-5-yl]-2-[8-(5-fluoropyrimidin-2-yl)-3,8-diazabicyclo[3.2.1]oct-3-yl]ethanone;
- Compound No. 52: 6-{(2R,5S)-2,5-dimethyl-4-[2-oxo-2-(2-phenyl-2,4,6,7-tetrahydropyrazolo[4,3-c]pyridin-5-yl)ethyl]piperazin-1-yl}nicotinonitrile;
- Compound No. 53: 6-{(2R,5S)-2,5-dimethyl-4-[2-oxo-2-(2-phenyl-2,4,6,7-tetrahydropyrazolo[4,3-c]pyridin-5-yl)ethyl]piperazin-1-yl}nicotinic acid;
- Compound No. 54: 2-[8-(5-fluoropyrimidin-2-yl)-3,8-diazabicyclo[3.2.1]oct-3-yl]-1-(2-phenyl-4,7-dihydro-5H-fluoro[2,3-c]pyridin-6-yl)ethanone;
- Compound No. 55: 2-[8-(5-fluoropyrimidin-2-yl)-3,8-diazabicyclo[3.2.1]oct-3-yl]-1-(2-phenyl-1,4,5,7-tetrahydropyrrolo[2,3-c]pyridin-6-yl)ethanone;
- Compound No. 56: 6-{8-[2-oxo-2-(2-phenyl-6,7-dihydro-4H-thiazolo[5,4-c]pyridin-5-yl)ethyl]-3,8-diazabicyclo[3.2.1]oct-3-yl}nicotinic acid methyl ester;
- Compound No. 57: 6-{8-[2-oxo-2-(2-phenyl-2,4,6,7-tetrahydropyrazolo[4,3-c]pyridin-5-yl)ethyl]-3,8-diazabicyclo[3.2.1]oct-3-yl}nicotinic acid methyl ester;
- Compound No. 58: 2-[8-(5-fluoropyrimidin-2-yl)-3,8-diazabicyclo[3.2.1]oct-3-yl]-1-(2-phenyl-6,7-dihydro-4H-oxazolo[4,5-c]pyridin-5-yl)ethanone;
- Compound No. 59: 6-{(2R,5S)-2,5-dimethyl-4-[2-oxo-2-(2-phenyl-6,7-dihydro-4H-thiazolo[5,4-c]pyridin-5-yl)ethyl]piperazin-1-yl}nicotinonitrile;
- Compound No. 60: 2-{8-[5-(5-methyl-[1,2,4]oxadiazol-3-yl)pyridin-2-yl]-3,8-diazabicyclo[3.2.1]oct-3-yl}-1-(2-phenyl-6,7-dihydro-4H-thiazolo[5,4-c]pyridin-5-

yl)ethanone;

- Compound No. 61: 6-{8-[2-oxo-2-(2-phenyl-2,4,6,7-tetrahydropyrazolo[4,3-c] pyridin-5-yl)ethyl]-3,8-diazabicyclo[3.2.1]oct-3-yl}nicotinic acid;
- Compound No. 62: 6-{8-[2-oxo-2-(2-phenyl-6,7-dihydro-4H-thiazolo[5,4-c]pyridin-5-yl)ethyl]-3,8-diazabicyclo[3.2.1]oct-3-yl}nicotinic acid;
- Compound No. 63: 6-{(2R,5S)-2,5-dimethyl-4-[2-oxo-2-(2-phenyl-6,7-dihydro-4H-thiazolo[5,4-c]pyridin-5-yl)ethyl]piperazin-1-yl}nicotinic acid;
- Compound No. 64: 2-[8-(5-fluoropyrimidin-2-yl)-3,8-diazabicyclo[3.2.1]oct-3-yl]-1-(2-pyridin-4-yl-6,7-dihydro-4H-thiazolo[5,4-c]pyridin-5-yl)ethanone;
- Compound No. 65: 4-{2-oxo-2-[2-(5-trifluoromethylpyridin-2-yl)-2,4,6,7-tetrahydropyrazolo[4,3-c]pyridin-5-yl]ethyl}-1-(5-trifluoromethylpyridin-2-yl)piperazin-2-one;
- Compound No. 66: 4-{2-oxo-2-[1-(2,2,2-trifluoroethyl)-1,4,6,7-tetrahydropyrazolo [4,3-c]pyridin-5-yl]ethyl}-1-(5-trifluoromethylpyridin-2-yl)piperazin-2-one;
- Compound No. 67: 2-[8-(5-fluoropyrimidin-2-yl)-3,8-diazabicyclo[3.2.1]oct-3-yl]-1-(2-phenyl-7,8-dihydro-5H-pyrido[4,3-d]pyrimidin-6-yl)ethanone;
- Compound No. 68: 3-(6-{3-[2-oxo-2-(2-phenyl-2,4,6,7-tetrahydropyrazolo[4,3-c] pyridin-5-yl)ethyl]-3,8-diazabicyclo[3.2.1]oct-8-yl}pyridin-3-yl)-4H-[1,2,4]oxadiazol-5-one;
- Compound No. 69: 2-[8-(5-fluoropyrimidin-2-yl)-3,8-diazabicyclo[3.2.1]oct-3-yl]-1-(2-phenyl-3,4,6,7-tetrahydroimidazo[4,5-c]pyridin-5-yl)ethanone;
- Compound No. 70: 3-(6-{3-[2-oxo-2-(2-phenyl-6,7-dihydro-4H-thiazolo[5,4-c]pyridin-5-yl)ethyl]-3,8-diazabicyclo[3.2.1]oct-8-yl}pyridin-3-yl)-4H-[1,2,4]oxadiazol-5-one;
- Compound No. 71: 2-[8-(5-fluoropyrimidin-2-yl)-3,8-diazabicyclo[3.2.1]oct-3-yl]-1-(2-phenyl-6,7-dihydro-4H-thiazolo[4,5-c]pyridin-5-yl)ethanone;
- Compound No. 72: 2-{(3S,5R)-3,5-dimethyl-4-[2-oxo-2-(2-phenyl-6,7-dihydro-4H-thiazolo[5,4-c]pyridin-5-yl)ethyl]piperazin-1-yl}pyrimidine-5-carboxylic acid;
- Compound No. 73: 2-[8-(5-fluoropyrimidin-2-yl)-3,8-diazabicyclo[3.2.1]oct-3-yl]-1-(2-pyridin-3-yl-6,7-dihydro-4H-thiazolo[5,4-c]pyridin-5-yl)ethanone;
- Compound No. 74: 1-(2-phenyl-6,7-dihydro-4H-thiazolo[5,4-c]pyridin-5-yl)-2-{8-[5-(1H-tetrazol-5-yl)pyridin-2-yl]-3,8-diazabicyclo[3.2.1]oct-3-yl}ethanone;
- Compound No. 75: 2-{(3S,5R)-3,5-dimethyl-4-[2-oxo-2-(2-phenyl-2,4,6,7-tetrahydropyrazolo[4,3-c]pyridin-5-yl)ethyl]piperazin-1-yl}pyrimidine-5-carboxylic acid;
- Compound No. 76: 6-(3-{2-[2-(4-fluorophenyl)-6,7-dihydro-4H-thiazolo[5,4-c]pyridin-5-

yl]-2-oxoethyl}-3,8-diazabicyclo[3.2.1]oct-8-yl)nicotinonitrile;

- Compound No. 77: 6-{3-[2-oxo-2-(2-phenyl-2,4,6,7-tetrahydropyrazolo[4,3-c]pyridin-5-yl)ethyl]-3,8-diazabicyclo[3.2.1]oct-8-yl}nicotinonitrile;
- Compound No. 78: 4-[2-oxo-2-(2-phenyl-3,4,6,7-tetrahydroimidazo[4,5-c]pyridin-5-yl)ethyl]-1-(5-trifluoromethylpyridin-2-yl)piperazin-2-one;
- Compound No. 79: 6-{(3S,5R)-3,5-dimethyl-4-[2-oxo-2-(2-phenyl-2,4,6,7-tetrahydropyrazolo[4,3-c]pyridin-5-yl)ethyl]piperazin-1-yl}nicotinic acid ethyl ester;
- Compound No. 80: 1-[2-(4-fluorophenyl)-6,7-dihydro-4H-thiazolo[5,4-c]pyridin-5-yl]-2-[8-(5-fluoropyrimidin-2-yl)-3,8-diazabicyclo[3.2.1]oct-3-yl]ethanone;
- Compound No. 81: 2-[8-(5-fluoropyrimidin-2-yl)-3,8-diazabicyclo[3.2.1]oct-3-yl]-1-[2-(4-methoxyphenyl)-6,7-dihydro-4H-thiazolo[5,4-c]pyridin-5-yl]ethanone;
- Compound No. 82: 4-[2-oxo-2-(2-phenyl-6,7-dihydro-4H-thiazolo[4,5-c]pyridin-5-yl)ethyl]-1-(5-trifluoromethylpyridin-2-yl)piperazin-2-one;
- Compound No. 83: 4-[2-oxo-2-(2-phenyl-6,7-dihydro-4H-oxazolo[4,5-c]pyridin-5-yl)ethyl]-1-(5-trifluoromethylpyridin-2-yl)piperazin-2-one;
- Compound No. 84: 4-[2-oxo-2-(2-pyridin-3-yl-6,7-dihydro-4H-thiazolo[5,4-c]pyridin-5-yl)ethyl]-1-(5-trifluoromethylpyridin-2-yl)piperazin-2-one;
- Compound No. 85: 2-{8-[5-(2-methyl-2H-tetrazol-5-yl)pyridin-2-yl]-3,8-diazabicyclo[3.2.1]oct-3-yl}-1-(2-phenyl-2,4,6,7-tetrahydropyrazolo[4,3-c]pyridin-5-yl)ethanone;
- Compound No. 86: 2-{(2S,6R)-2,6-dimethyl-4-[5-(1-methyl-1H-tetrazol-5-yl)-pyridin-2-yl]piperazin-1-yl}-1-(2-phenyl-2,4,6,7-tetrahydropyrazolo[4,3-c]pyridin-5-yl)ethanone;
- Compound No. 87: 2-{(2S,6R)-2,6-dimethyl-4-[5-(2-methyl-2H-tetrazol-5-yl)-pyridin-2-yl]piperazin-1-yl}-1-(2-phenyl-2,4,6,7-tetrahydropyrazolo[4,3-c]pyridin-5-yl)ethanone;
- Compound No. 88: 2-[8-(5-fluoropyrimidin-2-yl)-3,8-diazabicyclo[3.2.1]oct-3-yl]-1-[1-(4-trifluoromethylphenyl)-1,4,6,7-tetrahydropyrazolo[4,3-c]pyridin-5-yl]ethanone;
- Compound No. 89: 2-{(2S,6R)-2,6-dimethyl-4-[5-(5-methyl[1,2,4]oxadiazol-3-yl)-pyridin-2-yl]piperazin-1-yl}-1-(2-phenyl-2,4,6,7-tetrahydropyrazolo[4,3-c]pyridin-5-yl)ethanone;
- Compound No. 90: 2-[(2S,6R)-2,6-dimethyl-4-(5-[1,3,4]oxadiazol-2-ylpyridin-2-yl)piperazin-1-yl]-1-(2-phenyl-2,4,6,7-tetrahydropyrazolo[4,3-c]pyridin-5-yl)ethanone;
- Compound No. 91: 2-{(2S,6R)-2,6-dimethyl-4-[5-(3-methyl-[1,2,4]oxadiazol-5-yl)-pyridin-2-yl]piperazin-1-yl}-1-(2-phenyl-2,4,6,7-tetrahydropyrazolo[4,3-c]pyridin-5-yl)ethanone;
- Compound No. 92: 6-{(3S,5R)-4-[2-(1-tert-butyl-1,4,6,7-tetrahydropyrazolo[4,3-

c]pyridin-5-yl)-2-oxoethyl]-3,5-dimethylpiperazin-1-yl}nicotinic acid methyl ester;

- Compound No. 93: 6-{(3S,5R)-4-[2-(1-tert-butyl-1,4,6,7-tetrahydropyrazolo[4,3-c]pyridin-5-yl)-2-oxoethyl]-3,5-dimethylpiperazin-1-yl}nicotinic acid;
- Compound No. 94: 6-{3-[2-(1-tert-butyl-1,4,6,7-tetrahydropyrazolo[4,3-c]pyridin-5-yl)-2-oxoethyl]-3,8-diazabicyclo[3.2.1]oct-8-yl}nicotinic acid;
- Compound No. 95: 2-[8-(5-fluoropyrimidin-2-yl)-3,8-diazabicyclo[3.2.1]oct-3-yl]-1-(2-phenyl-6,7-dihydro-4H-oxazolo[5,4-c]pyridin-5-yl)ethanone;
- Compound No. 96: 4-[2-oxo-2-(2-phenyl-6,7-dihydro-4H-oxazolo[5,4-c]pyridin-5-yl)ethyl]-1-(5-trifluoromethylpyridin-2-yl)piperazin-2-one;
- Compound No. 97: 2-[(2S,6R)-2,6-dimethyl-4-(5-trifluoromethylpyridin-2-yl)piperazin-1-yl]-1-(2-phenyl-4,7-dihydro-5H-fluoro[2,3-c]pyridin-6-yl)ethanone;
- Compound No. 98: 6-{(3S,5R)-3,5-dimethyl-4-[2-oxo-2-(2-phenyl-2,4,6,7-tetrahydropyrazolo[4,3-c]pyridin-5-yl)ethyl]piperazin-1-yl}nicotinic acid isopropyl ester;
- Compound No. 99: 1-(2-methyl-2,4,6,7-tetrahydropyrazolo[4,3-c]pyridin-5-yl)-2-[8-(5-trifluoromethylpyridin-2-yl)-3,8-diazabicyclo[3.2.1]oct-3-yl]ethanone;
- Compound No. 100: 2-[(2S,6R)-2,6-dimethyl-4-(5-trifluoromethylpyridin-2-yl)piperazin-1-yl]-1-(2-methyl-2,4,6,7-tetrahydropyrazolo[4,3-c]pyridin-5-yl)ethanone;
- Compound No. 101: 1-(2-phenyl-4,7-dihydro-5H-fluoro[2,3-c]pyridin-6-yl)-2-[8-(5-trifluoromethylpyridin-2-yl)-3,8-diazabicyclo[3.2.1]oct-3-yl]ethanone;
- Compound No. 102: 6-(3-{2-[2-(4-fluorophenyl)-6,7-dihydro-4H-thiazolo[5,4-c] pyridin-5-yl]-2-oxoethyl}-3,8-diazabicyclo[3.2.1]oct-8-yl)nicotinic acid;
- Compound No. 103: 2-[(2S,6R)-2,6-dimethyl-4-(5-trifluoromethylpyridin-2-yl)piperazin-1-yl]-1-[2-(5-trifluoromethylpyridin-2-yl)-2,4,6,7-tetrahydropyrazolo[4,3-c]pyridin-5-yl]ethanone;
- Compound No. 104: 2-[8-(5-trifluoromethylpyridin-2-yl)-3,8-diazabicyclo[3.2.1]oct-3-yl]-1-[2-(5-trifluoromethylpyridin-2-yl)-2,4,6,7-tetrahydropyrazolo[4,3-c]pyridin-5-yl]ethanone;
- Compound No. 105: 6-{(3S,5R)-4-[2-(2-tert-butyl-2,4,6,7-tetrahydropyrazolo[4,3-c]pyridin-5-yl)-2-oxoethyl]-3,5-dimethylpiperazin-1-yl}nicotinic acid;
- Compound No. 106: 2-(8-pyridin-3-yl-3,8-diazabicyclo[3.2.1]oct-3-yl)-1-[2-(5-trifluoromethylpyridin-2-yl)-2,4,6,7-tetrahydropyrazolo[4,3-c]pyridin-5-yl]ethanone;
- Compound No. 107: 2-[5-(6-trifluoromethylpyridazin-3-yl)-2,5-diazabicyclo[2.2.1] hept-2-yl]-1-[2-(5-trifluoromethylpyridin-2-yl)-2,4,6,7-tetrahydropyrazolo[4,3-c] pyridin-5-yl]ethanone;

- Compound No. 108: 2-(6'-chloro-2,3,5,6-tetrahydro[1,2']bipyrazinyl-4-yl)-1-[2-(5-trifluoromethylpyridin-2-yl)-2,4,6,7-tetrahydropyrazolo[4,3-c]pyridin-5-yl]ethanone;
- Compound No. 109: 1-(2-phenyl-3,4,6,7-tetrahydroimidazo[4,5-c]pyridin-5-yl)-2-[8-(5-trifluoromethylpyridin-2-yl)-3,8-diazabicyclo[3.2.1]oct-3-yl]ethanone;
- Compound No. 110: 2-[(2S,6R)-2,6-dimethyl-4-(5-trifluoromethylpyridin-2-yl)piperazin-1-yl]-1-(2-phenyl-3,4,6,7-tetrahydroimidazo[4,5-c]pyridin-5-yl)ethanone;
- Compound No. 111: 2-((3S,5R)-3,5-dimethyl-2,3,5,6-tetrahydro[1,2']bipyrazinyl-4-yl)-1-[2-(5-trifluoromethylpyridin-2-yl)-2,4,6,7-tetrahydropyrazolo[4,3-c]pyridin-5-yl]ethanone;
- Compound No. 112: 2-[(2S,6R)-4-(5-chloropyridin-2-yl)-2,6-dimethylpiperazin-1-yl]-1-[2-(5-trifluoromethylpyridin-2-yl)-2,4,6,7-tetrahydropyrazolo[4,3-c]pyridin-5-yl]ethanone;
- Compound No. 113: 2-[4-(7-chloroquinolin-4-yl)piperazin-1-yl]-1-(2-phenyl-2,4,6,7-tetrahydropyrazolo[4,3-c]pyridin-5-yl)ethanone;
- Compound No. 114: 2-[4-(6-chloropyridin-2-yl)piperazin-1-yl]-1-(2-phenyl-2,4,6,7-tetrahydropyrazolo[4,3-c]pyridin-5-yl)ethanone;
- Compound No. 115: 1-(2-pyridin-4-yl-6,7-dihydro-4H-thiazolo[5,4-c]pyridin-5-yl)-2-[8-(5-trifluoromethylpyridin-2-yl)-3,8-diazabicyclo[3.2.1]oct-3-yl]ethanone;
- Compound No. 116: 6-{(3S,5R)-3,5-dimethyl-4-[2-oxo-2-(2-phenyl-3,4,6,7-tetrahydroimidazo[4,5-c]pyridin-5-yl)ethyl]piperazin-1-yl}nicotinic acid;
- Compound No. 117: 1-(2-pyridin-2-yl-2,4,6,7-tetrahydropyrazolo[4,3-c]pyridin-5-yl)-2-[8-(5-trifluoromethylpyridin-2-yl)-3,8-diazabicyclo[3.2.1]oct-3-yl]ethanone;
- Compound No. 118: 2-[(2S,6R)-2,6-dimethyl-4-(5-trifluoromethylpyridin-2-yl)piperazin-1-yl]-1-(2-pyridin-2-yl-2,4,6,7-tetrahydropyrazolo[4,3-c]pyridin-5-yl)ethanone;
- Compound No. 119: 4-[2-oxo-2-(2-pyridin-2-yl-2,4,6,7-tetrahydropyrazolo[4,3-c]pyridin-5-yl)ethyl]-1-(5-trifluoromethylpyridin-2-yl)piperazin-2-one;
- Compound No. 120: 4-{2-[2-(4-fluorophenyl)-3,4,6,7-tetrahydroimidazo[4,5-c]pyridin-5-yl]-2-oxoethyl}-1-(5-trifluoromethylpyridin-2-yl)piperazin-2-one;
- Compound No. 121: 2-(8-pyridin-3-yl-3,8-diazabicyclo[3.2.1]oct-3-yl)-1-(2-pyridin-2-yl-2,4,6,7-tetrahydropyrazolo[4,3-c]pyridin-5-yl)ethanone;
- Compound No. 122: 1-[2-(2,2,2-trifluoroethyl)-2,4,6,7-tetrahydropyrazolo[4,3-c]pyridin-5-yl]-2-[8-(5-trifluoromethylpyridin-2-yl)-3,8-diazabicyclo[3.2.1]oct-3-yl]ethanone;
- Compound No. 123: 1-[2-(4-fluorophenyl)-3,4,6,7-tetrahydroimidazo[4,5-c]pyridin-5-yl]-2-[8-(5-trifluoromethylpyridin-2-yl)-3,8-diazabicyclo[3.2.1]oct-3-yl]ethanone;

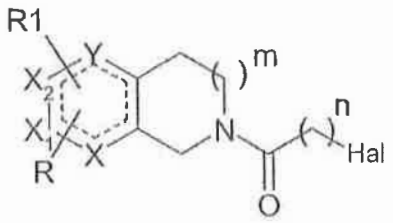
- Compound No. 124: 2-[(2S,6R)-2,6-dimethyl-4-(5-trifluoromethylpyridin-2-yl)piperazin-1-yl]-1-[2-(4-fluorophenyl)-3,4,6,7-tetrahydroimidazo[4,5-c]pyridin-5-yl]ethanone;
- Compound No. 125: 4-{2-oxo-2-[2-(2,2,2-trifluoroethyl)-2,4,6,7-tetrahydropyrazolo [4,3-c]pyridin-5-yl]ethyl}-1-(5-trifluoromethylpyridin-2-yl)piperazin-2-one;
- Compound No. 126: 2-[(2S,6R)-2,6-dimethyl-4-(5-trifluoromethylpyridin-2-yl)piperazin-1-yl]-1-[2-(2,2,2-trifluoroethyl)-2,4,6,7-tetrahydropyrazolo[4,3-c]pyridin-5-yl]ethanone;
- Compound No. 127: 1-(2-phenyl-2,4,6,7-tetrahydropyrazolo[4,3-c]pyridin-5-yl)-2-[5-(5-trifluoromethylpyridin-2-yl)-2,5-diazabicyclo[2.2.1]hept-2-yl]ethanone;
- Compound No. 128: 6-{3-[2-oxo-2-(2-phenyl-2,4,6,7-tetrahydropyrazolo[4,3-c]pyridin-5-yl)ethyl]-3,8-diazabicyclo[3.2.1]oct-8-yl}nicotinic acid cyclobutyl ester;
- Compound No. 129: 2-((2S,6R)-2,6-dimethyl-4-quinolin-2-ylpiperazin-1-yl)-1-(2-phenyl-2,4,6,7-tetrahydropyrazolo[4,3-c]pyridin-5-yl)ethanone;
- Compound No. 130: 6-{(3S,5R)-3,5-dimethyl-4-[2-oxo-2-(2-phenyl-2,4,6,7-tetrahydropyrazolo[4,3-c]pyridin-5-yl)ethyl]piperazin-1-yl}nicotinic acid ethyl ester;
- Compound No. 131: 2-[(2S,6R)-4-(5-methanesulphonylpyridin-2-yl)-2,6-dimethylpiperazin-1-yl]-1-(2-phenyl-2,4,6,7-tetrahydropyrazolo[4,3-c]pyridin-5-yl)ethanone;
- Compound No. 132: 2-[(2S,6R)-4-(5-fluoropyrimidin-2-yl)-2,6-dimethylpiperazin-1-yl]-1-[2-(4-methoxyphenyl)-6,7-dihydro-4H-thiazolo[5,4-c]pyridin-5-yl]ethanone;
- Compound No. 133: 1-[2-(4-methoxyphenyl)-6,7-dihydro-4H-thiazolo[5,4-c]pyridin-5-yl]-2-[5-(5-trifluoromethylpyridin-2-yl)-2,5-diazabicyclo[2.2.1]hept-2-yl]ethanone;
- Compound No. 134: 1-(2-phenyl-6,7-dihydro-4H-thiazolo[5,4-c]pyridin-5-yl)-2-{4-[5-(2H-pyrazol-3-yl)pyridin-2-yl]piperazin-1-yl}ethanone;
- Compound No. 135: 2-[(2S,6R)-2,6-dimethyl-4-(5-thiazol-2-ylpyridin-2-yl)piperazin-1-yl]-1-(2-phenyl-2,4,6,7-tetrahydropyrazolo[4,3-c]pyridin-5-yl)ethanone;
- Compound No. 136: 1-(2-phenyl-6,7-dihydro-4H-thiazolo[5,4-c]pyridin-5-yl)-2-[8-(5-thiazol-2-ylpyridin-2-yl)-3,8-diazabicyclo[3.2.1]oct-3-yl]ethanone;
- Compound No. 137: 2-[8-(5-[1,2,4]oxadiazol-3-ylpyridin-2-yl)-3,8-diazabicyclo [3.2.1]oct-3-yl]-1-(2-phenyl-2,4,6,7-tetrahydropyrazolo[4,3-c]pyridin-5-yl)ethanone;
- Compound No. 138: 1-(2-ethyl-2,4,6,7-tetrahydropyrazolo[4,3-c]pyridin-5-yl)-2-[8-(5-trifluoromethylpyridin-2-yl)-3,8-diazabicyclo[3.2.1]oct-3-yl]ethanone;
- Compound No. 139: 2-[(2S,6R)-2,6-dimethyl-4-(5-[1,2,4]oxadiazol-5-ylpyridin-2-yl)piperazin-1-yl]-1-(2-phenyl-2,4,6,7-tetrahydropyrazolo[4,3-c]pyridin-5-yl)ethanone;
- Compound No. 140: 6-{(3S,5R)-3,5-dimethyl-4-[2-oxo-2-(2-pyridin-2-yl-2,4,6,7-

tetrahydropyrazolo[4,3-c]pyridin-5-yl)ethyl]piperazin-1-yl}nicotinic acid;

- Compound No. 141: 2-((2S,6R)-2,6-dimethyl-4-pyridin-3-ylpiperazin-1-yl)-1-(2-pyridin-4-yl-2,4,6,7-tetrahydropyrazolo[4,3-c]pyridin-5-yl)ethanone;
- Compound No. 142: 2-((2S,6R)-2,6-dimethyl-4-pyridin-3-ylpiperazin-1-yl)-1-[2-(5-fluoropyridin-2-yl)-2,4,6,7-tetrahydropyrazolo[4,3-c]pyridin-5-yl]ethanone;
- Compound No. 143: 2-((2S,6R)-2,6-dimethyl-4-pyridin-3-ylpiperazin-1-yl)-1-[2-(5-trifluoromethylpyridin-2-yl)-2,4,6,7-tetrahydropyrazolo[4,3-c]pyridin-5-yl]ethanone;
- Compound No. 144: 6-{(3S,5R)-3,5-dimethyl-4-[2-oxo-2-(2-pyridin-2-yl-2,4,6,7-tetrahydropyrazolo[4,3-c]pyridin-5-yl)ethyl]piperazin-1-yl}nicotinic acid methyl ester;
- Compound No. 145: 2-((2S,6R)-2,6-dimethyl-4-pyridin-3-ylpiperazin-1-yl)-1-(2-phenyl-3,4,6,7-tetrahydroimidazo[4,5-c]pyridin-5-yl)ethanone;
- Compound No. 146: 2-[(2S,6R)-2,6-dimethyl-4-(5-trifluoromethylpyridin-2-yl)piperazin-1-yl]-1-(2-pyridazin-3-yl-2,4,6,7-tetrahydropyrazolo[4,3-c]pyridin-5-yl)ethanone;
- Compound No. 147: 2-[(2S,6R)-2,6-dimethyl-4-(5-trifluoromethylpyridin-2-yl)piperazin-1-yl]-1-(2-ethyl-2,4,6,7-tetrahydropyrazolo[4,3-c]pyridin-5-yl)ethanone;
- Compound No. 148: 4-[2-(2-ethyl-2,4,6,7-tetrahydropyrazolo[4,3-c]pyridin-5-yl)-2-oxoethyl]-1-(5-trifluoromethylpyridin-2-yl)piperazin-2-one;
- Compound No. 149: 6-{(3S,5R)-3,5-dimethyl-4-[2-oxo-2-(2-phenyl-2,4,6,7-tetrahydropyrazolo[4,3-c]pyridin-5-yl)ethyl]piperazin-1-yl}nicotinic acid;
- Compound No. 150: 6-{(3S,5R)-3,5-dimethyl-4-[2-oxo-2-(2-phenyl-2,4,6,7-tetrahydropyrazolo[4,3-c]pyridin-5-yl)ethyl]piperazin-1-yl}nicotinic acid;

in the form of a base or of an addition salt with an acid.

9. Process for preparing a compound of formula (I) according to any one of Claims 1 to 8, characterized in that a compound of formula (II):



(II)

in which Y, X, X1, X2, R1, R, n and m are defined according to any one of Claims 1 to 8 and Hal represents a halogen atom,

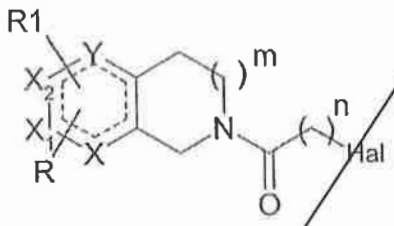
is reacted with a compound of general formula (III):

H-W-R2

(III)

in which W and R2 are as defined in any one of Claims 1 to 8.

10. Compound of formula (II):



(II)

in which Y, X, X1, X2, R1, R, n and m are defined according to any one of Claims 1 to 8 and Hal represents a halogen atom;
in the form of a base or of an addition salt with an acid.

11. Medicament, characterized in that it comprises a compound of formula (I) according to any one of Claims 1 to 8, or an addition salt of this compound with a pharmaceutically acceptable acid.

12. Pharmaceutical composition, characterized in that it comprises a compound of formula (I) according to any one of Claims 1 to 8, or a pharmaceutically acceptable salt, and also at least one pharmaceutically acceptable excipient.

13. Compound according to any one of Claims 1 to 8, as a medicament.

14. Compound according to any one of Claims 1 to 8, for the preparation of a medicament for use in the prevention or treatment of central and peripheral neurodegenerative diseases, senile dementia, epilepsy, Alzheimer's disease, Parkinson's disease, Huntington's chorea, Down's syndrome, prion diseases, amnesia, schizophrenia, depression, bipolar disorder, amyotrophic lateral sclerosis, multiple sclerosis, cardiovascular conditions, post-ischaemic cardiac damage, cardiomyopathies, myocardial infarction, heart failure, cardiac ischaemia, cerebral infarction; peripheral neuropathies, damage to the optic nerve and to the retina, retinal pigment degeneration, glaucoma,

retinal ischaemia, macular degeneration, spinal cord traumas, cranial traumas, atherosclerosis, stenoses, cicatrization disorders, alopecia, pancreatitis, hepatic fibrosis, cancers, tumours, metastases, leukaemias, respiratory disorders, pulmonary inflammation, allergy, asthma, chronic obstructive pulmonary disease, cutaneous, somatic, visceral and neurological pain, chronic neuropathic and inflammatory pain, autoimmune diseases, rheumatoid arthritis, ankylosing spondylarthritis, psoriatic arthritis, plaque psoriasis, bone fractures, bone diseases and osteoporosis.

15. Compound according to Claim 14, having the ability to inhibit the dimerization of the $p75^{NTR}$ receptor independently of its ligand.

16. Use of a compound according to one of Claims 1 to 8, for the preparation of medicaments of use in the treatment and prevention of central and peripheral neurodegenerative diseases, senile dementia, epilepsy, Alzheimer's disease, Parkinson's disease, Huntington's chorea, Down's syndrome, prion diseases, amnesia, schizophrenia, depression, bipolar disorder, amyotrophic lateral sclerosis, multiple sclerosis, cardiovascular conditions, post-ischaemic cardiac damage, cardiomyopathies, myocardial infarction, heart failure, cardiac ischaemia, cerebral infarction; peripheral neuropathies, damage to the optic nerve and to the retina, retinal pigment degeneration, glaucoma, retinal ischaemia, macular degeneration, spinal cord traumas, cranial traumas, atherosclerosis, stenoses, cicatrization disorders, alopecia, pancreatitis, hepatic fibrosis, cancers, tumours, metastases, leukaemias, respiratory disorders, pulmonary inflammation, allergy, asthma, chronic obstructive pulmonary disease, cutaneous, somatic, visceral and neurological pain, chronic neuropathic and inflammatory pain, autoimmune diseases, rheumatoid arthritis, ankylosing spondylarthritis, psoriatic arthritis, plaque psoriasis, bone fractures, bone diseases and osteoporosis.