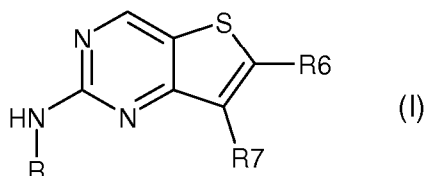


CLAIMS

1. A compound of formula (I):



wherein:

R6 is -CONH₂ or a -C(R_α)(R_β)(OH) group in which R_α and R_β are, independently of one another, a hydrogen atom or a (C₁-C₆) alkyl group or together form, with the carbon atom which bears them, a 3- to 5-membered carbocycle;

R is a phenyl or heteroaryl group substituted with R1, R'1, R2 and R3;

R1 is a hydrogen atom or is selected from the following groups: (C₁-C₆)alkyl, (C₁-C₆)alkoxy, (C₃-C₇)cycloalkyl and aryl, these groups being optionally substituted with one or several substituents selected, independently in each instance, from: amino, hydroxyl, thiol, halogen, (C₁-C₆)alkyl, (C₁-C₆)alkoxy, (C₁-C₆)alkylthio, (C₁-C₆)alkylamino, aryloxy, aryl(C₁-C₆)alkoxy, cyano, halo(C₁-C₆)alkyl, carboxyl and carboxy(C₁-C₆)alkyl;

R'1 is a hydrogen atom or a (C₁-C₆)alkoxy group;

R2 is selected from:

- a hydrogen atom, a halogen atom, or a (C₁-C₆)alkyl, (C₃-C₇)cycloalkyl or (C₁-C₆)alkoxy group;

- a heterocycloalkyl, heterocycloalkyl-CH₂- or heteroaryl group;

wherein each said heterocycloalkyl, heterocycloalkyl-CH₂- and heteroaryl group is optionally substituted with one or several substituents selected, independently in each instance, from: (C₁-C₆)alkyl, (C₃-C₇)cycloalkyl, (C₁-C₆)alkoxy, heterocycloalkyl, carboxy(C₁-C₆)alkyl, NR₄R₅ and OR₄;

said (C₁-C₆)alkyl group being optionally substituted with a halogen atom or a (C₁-C₆)alkoxy, heterocycloalkyl, NH₂ or OH group; and

R4 and R5 being each, independently of one another, a hydrogen atom, a (C₁-C₆)alkyl group or a heterocycloalkyl group;

or else R4 and R5 together form, with the nitrogen atom which bears them, a 4- to 7-membered ring;

- an NRaRb group, where Ra and Rb are, independently of one another:

. a hydrogen atom;

. a heterocycloalkyl group, said heterocycloalkyl group being optionally substituted with a (C₁-C₆)alkyl group; or

. a (C₁-C₆)alkyl group, said alkyl group being optionally substituted with an NR4R5 group;

R4 and R5 being each, independently of one another, a hydrogen atom, a (C₁-C₆)alkyl group or a heterocycloalkyl group;

or else R4 and R5 together form, with the nitrogen atom which bears them, a 4- to 7-membered ring;

R3 is a hydrogen atom, a halogen atom or a (C₁-C₆)alkyl group;

wherein when R is a phenyl group, two adjacent substituents on the phenyl group may together form a heterocycloalkyl ring fused with the phenyl bearing them, this heterocycloalkyl being optionally substituted with one or several substituents selected, independently in each instance, from: an oxo group and a (C₁-C₆)alkyl group;

R7 is an aryl group or heteroaryl group, this group being optionally substituted with one or several substituents selected, independently in each instance, from: cyano, halogen, (C₁-C₆)alkyl, OR'4, CH₂OH, CH₂NH₂, S(O)_nR'4, R8 and OR8;

wherein:

R'4 is a hydrogen atom or a (C₁-C₆)alkyl or aryl group, said alkyl and aryl groups being optionally substituted with a halogen atom or an NH₂ or OH group;

n is 1 or 2; and

R8 is a halo(C₁-C₆)alkyl group;

wherein each of the nitrogen atom(s) of the compounds of formula (I) may be, independently of one another, optionally in oxidized form (N-oxide);

or a pharmaceutically acceptable salt thereof.

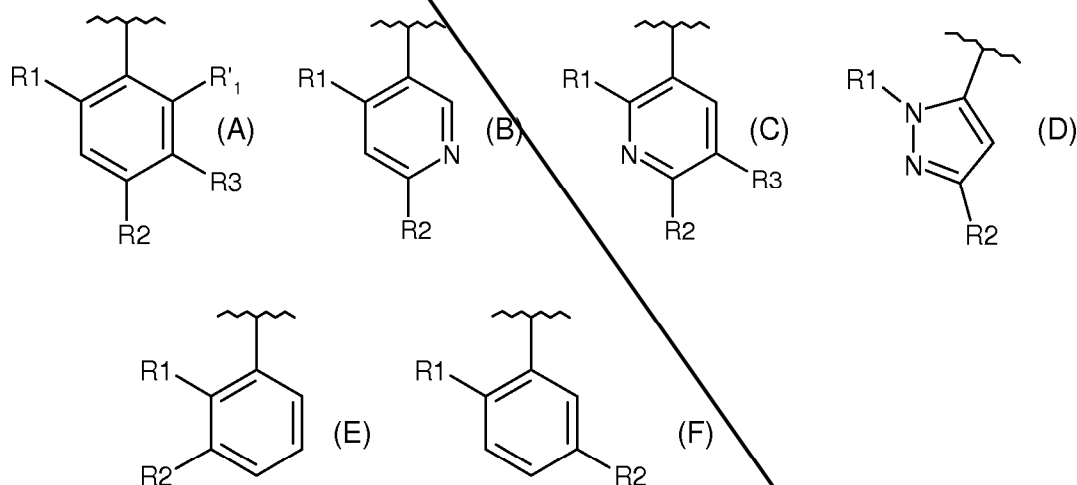
2. A compound according to Claim 1, wherein:

R₆ is -CONH₂ or a -C(R_α)(R_β)(OH) group wherein R_α and R_β are, independently of one another, a hydrogen atom or a (C₁-C₆)alkyl group;
or a pharmaceutically acceptable salt thereof.

3. A compound according to Claim 1 or 2, wherein:

R is a phenyl, pyridinyl or pyrazolyl group substituted with R₁, R'₁, R₂ and R₃;
R₁, R'₁, R₂ and R₃ being as defined in formula (I) according to Claim 1;
or a pharmaceutically acceptable salt thereof.

4. A compound according to any one of Claims 1 to 3, wherein R is selected from the following groups:



R₁, R'₁, R₂ and R₃ being as defined in formula (I) according to Claim 1;
or a pharmaceutically acceptable salt thereof.

5. A compound according to any one of Claims 1 to 4, wherein R₁ is a hydrogen atom or is selected from the following groups: (C₁-C₆)alkyl, (C₁-C₆)alkoxy, (C₃-C₇)cycloalkyl and aryl;
or a pharmaceutically acceptable salt thereof.

6. A compound of formula (I) according to any one of Claims 1 to 5, wherein R'₁ is a hydrogen atom or an isopropoxy group;

or a pharmaceutically acceptable salt thereof.

7. A compound according to any one of Claims 1 to 6, wherein:

R² is selected from:

- a hydrogen or chlorine atom or a methyl, cyclopropyl or methoxy group;
- a pyrrolidinyl, piperidinyl, tetrahydropyridinyl, piperazinyl, tetrahydropyranyl, 1,4-diazepan-1-yl, diazabicycloheptanyl, (8aR)-hexahydropyrrolo[1,2-a]pyrazin-2(1H)-yl, 1,7-diazaspiro[4.4]non-7-yl, octahydroindoliziny, dihydroimidazopyrazinyl, piperazinyl-CH₂, pyrazolyl, imidazolyl, triazolyl or pyridinyl group; these groups being optionally substituted with one or more substituents selected, independently in each instance, from: (C₁-C₆)alkyl, (C₃-C₇)cycloalkyl, (C₁-C₆)alkoxy, heterocycloalkyl, carboxy(C₁-C₆)alkyl, NR⁴R⁵ and OR⁴;

said (C₁-C₆)alkyl group being optionally substituted with a halogen atom or a (C₁-C₆)alkoxy, heterocycloalkyl, NH₂ or OH group;

wherein:

R⁴ and R⁵ each is, independently of one another, a hydrogen atom, a (C₁-C₆)alkyl group or a heterocycloalkyl group;

or else R⁴ and R⁵ together form, with the nitrogen atom bearing them, a 4- to 7-membered ring; and

- an NR^aR^b group, where R^a and R^b are, independently of one another:

- . a hydrogen atom;
- . a piperidinyl group or tetrahydropyranyl group, wherein each of said piperidinyl and tetrahydropyranyl groups is independently optionally substituted with a (C₁-C₆)alkyl group; or
- . a methyl or ethyl group, said alkyl group being optionally substituted with an NR⁴R⁵ group;

wherein:

R⁴ and R⁵ each is, independently of one another, a hydrogen atom, a (C₁-C₆)alkyl group or a heterocycloalkyl group;

or else R⁴ and R⁵ together form, with the nitrogen atom bearing them, a 4- to 7-membered ring; and

R³ is a hydrogen atom, a halogen atom or a (C₁-C₆)alkyl group;

wherein when R corresponds to formula (A), R2 and R3 can together form an azepinyl or oxazepinyl ring fused with the phenyl bearing them, this azepinyl or oxazepinyl being optionally substituted with one or more substituents selected, independently in each instance, from: an oxo group and a (C₁-C₆)alkyl group;

or a pharmaceutically acceptable salt thereof.

8. A compound according to any one of Claims 1 to 7, wherein:

R7 is a phenyl, pyridinyl, thienyl, furanyl, pyrazolyl or pyrrolyl group, this group being optionally substituted with one or more substituents selected, independently in each instance, from: cyano, halogen, (C₁-C₆)alkyl, OR'₄, CH₂OH, CH₂NH₂, S(O)_nR'₄, R8 and OR8;

wherein:

- R'₄ is a hydrogen atom or a (C₁-C₆)alkyl group or aryl group, said (C₁-C₆)alkyl and aryl groups being optionally substituted with a halogen atom or an NH₂ or OH group;
- n is 1 or 2;
- R8 is a halo(C₁-C₆)alkyl group;

or a pharmaceutically acceptable salt thereof.

9. A compound according to any one of Claims 1 to 8, wherein

R6 is -CONH₂ or a -C(R_α)(R_β)(OH) group wherein R_α and R_β are, independently of one another, a hydrogen atom or a (C₁-C₆)alkyl group;

R is a phenyl, pyridinyl or pyrazolyl group substituted with R1, R'₁, R2 and R3;

R1 is a hydrogen atom or is selected from the following groups: (C₁-C₆)alkyl, (C₁-C₆)alkoxy, (C₃-C₇)cycloalkyl and aryl;

R'₁ is a hydrogen atom or an isopropoxy group;

R2 is selected from:

- a hydrogen or chlorine atom or a methyl, cyclopropyl or methoxy group;

- a pyrrolidinyl, piperidinyl, tetrahydropyridinyl, piperazinyl, tetrahydropyranyl, 1,4-diazepan-1-yl, diazabicycloheptanyl, (8aR)-hexahydropyrrolo[1,2-a]pyrazin-2(1H)-yl, 1,7-diazaspiro[4.4]non-7-yl, octahydroindoliziny, dihydroimidazopyrazinyl, piperazinyl-CH₂, pyrazolyl, imidazolyl, triazolyl or pyridinyl group; these groups being optionally substituted with one or more substituents independently selected from: (C₁-C₆)alkyl, (C₃-C₇)cycloalkyl, (C₁-C₆)alkoxy, heterocycloalkyl, carboxy(C₁-C₆)alkyl, NR₄R₅ and OR₄;

said (C₁-C₆)alkyl group being optionally substituted with a halogen atom or a (C₁-C₆)alkoxy, heterocycloalkyl, NH₂ or OH group;

and wherein:

R₄ and R₅ each is, independently of one another, a hydrogen atom, a (C₁-C₆)alkyl group or a heterocycloalkyl group;

or else R₄ and R₅ together form, with the nitrogen atom which bears them, a 4- to 7-membered ring; and

- an NR_aR_b group, where R_a and R_b are, independently of one another:

. a hydrogen atom;

. a piperidinyl or tetrahydropyranyl group, said group being optionally substituted with a (C₁-C₆)alkyl group; or

. a methyl or ethyl group, said group being optionally substituted with an NR₄R₅ group;

wherein:

R₄ and R₅ each is, independently of one another, a hydrogen atom, a (C₁-C₆)alkyl group or a heterocycloalkyl group;

or else R₄ and R₅ together form, with the nitrogen atom which bears them, a 4- to 7-membered ring; and

R₃ is a hydrogen atom, a halogen atom or a (C₁-C₆)alkyl group;

wherein when R corresponds to formula (A), R₂ and R₃ may together form an azepinyl or oxazepinyl ring fused with the phenyl bearing them, this azepinyl or oxazepinyl ring being optionally substituted with at least one substituent selected from: an oxo group and a (C₁-C₆)alkyl group;

R₇ is a phenyl, pyridinyl, thienyl, furanyl, pyrazolyl or pyrrolyl group, this group being optionally substituted with one or more substituents selected, independently in each

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instance, from: cyano, halogen, (C₁-C₆)alkyl, OR'₄, CH₂OH, CH₂NH₂, S(O)_nR'₄, R₈ and OR₈;

wherein:

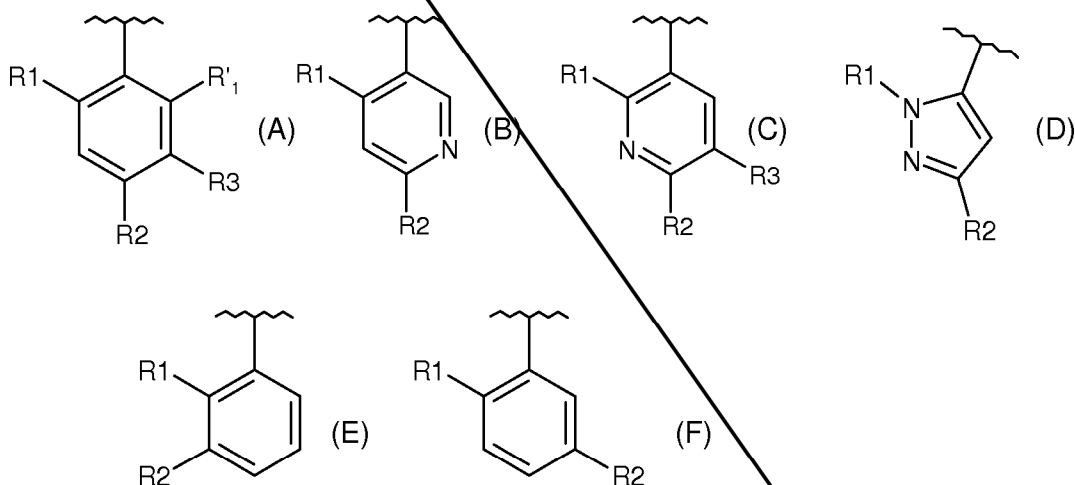
- . R'₄ is a hydrogen atom or a (C₁-C₆)alkyl or aryl group, said alkyl and aryl groups being optionally substituted with a halogen atom or an NH₂ or OH group;
- . n is 1 or 2; and
- . R₈ is a halo(C₁-C₆)alkyl group;

or a pharmaceutically acceptable salt thereof.

10. A compound according to any one of Claims 1 to 9, wherein:

R₆ is -CONH₂ or a -C(R_α)(R_β)(OH) group wherein R_α and R_β are, independently of one another, a hydrogen atom or a (C₁-C₆)alkyl group;

R is selected from the following groups:



R₁ is a hydrogen atom or is selected from the following groups: (C₁-C₆)alkyl, (C₁-C₆)alkoxy, (C₃-C₇)cycloalkyl and aryl;

R'₁ is a hydrogen atom or an isopropoxy group;

R₂ is a pyrrolidinyl, piperidinyl, tetrahydropyridinyl, piperazinyl, tetrahydropyranyl, 1,4-diazepan-1-yl, diazabicycloheptanyl, (8aR)-hexahydropyrrolo[1,2-a]pyrazin-2(1H)-yl, 1,7-diazaspiro[4.4]non-7-yl, octahydroindolizinyl, dihydroimidazopyrazinyl, piperazinyl-CH₂, pyrazolyl, imidazolyl, triazolyl or pyridinyl group; these groups being

optionally substituted with one or more substituents selected, independently in each instance, from: (C₁-C₆)alkyl, (C₃-C₇)cycloalkyl, (C₁-C₆)alkoxy, heterocycloalkyl, carboxy(C₁-C₆)alkyl, NR₄R₅ and OH;

said (C₁-C₆)alkyl group being optionally substituted with a (C₁-C₆)alkoxy group or OH;

wherein:

R₄ and R₅ each is, independently of one another, a hydrogen atom, a (C₁-C₆)alkyl group or a heterocycloalkyl group;

or else R₄ and R₅ together form, with the nitrogen atom which bears them, a 4- to 7-membered ring;

R₃ is a hydrogen atom, a halogen atom or a (C₁-C₆)alkyl group;

R₇ is a phenyl, pyridinyl, thienyl, furanyl, pyrazolyl or pyrrolyl group, this group being optionally substituted with one or more substituents selected, independently in each instance, from: cyano, halogen, (C₁-C₆)alkyl, OR'₄, CH₂OH, CH₂NH₂, S(O)_nR'₄, R₈ and OR₈;

wherein:

R'₄ is a hydrogen atom or a (C₁-C₆)alkyl or aryl group, said alkyl and aryl groups being optionally substituted with a halogen atom or an NH₂ or OH group;

n is 1 or 2; and

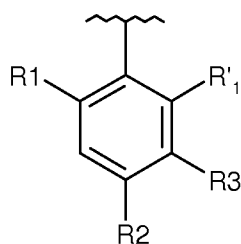
R₈ is a halo(C₁-C₆)alkyl group;

or a pharmaceutically acceptable salt thereof.

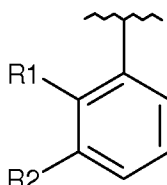
11. A compound according to any one of Claims 1 to 10, wherein:

R₆ is -CONH₂ or a -C(R_α)(R_β)(OH) group wherein R_α and R_β are, independently of one another, a hydrogen atom or a (C₁-C₆)alkyl group;

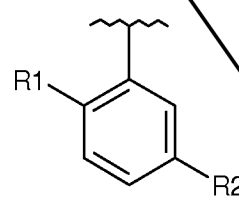
R is an (A), (E) or (F) group



(A)



(E)



(F)

R1 is an isopropoxy group;

R'1 is a hydrogen atom;

5 R2 is a piperidinyl or piperazinyl group, these groups being optionally substituted with one or more substituents selected, independently in each instance, from: a methyl, ethyl, isopropyl, cyclopropyl, OH, oxetanyl, pyrrolidinyl, C(O)O(CH₃)₃, NR₄R₅ and OR₄ group;

10 said methyl, ethyl and isopropyl groups being optionally substituted with a (C₁-C₆)alkoxy group, such as methoxy, or with an OH;

wherein R₄ and R₅ each is, independently of one another, a hydrogen atom, a (C₁-C₆)alkyl group or a heterocycloalkyl group;

15 R3 is a hydrogen or fluorine atom or a methyl;

R7 is a phenyl, pyridinyl, thienyl, furanyl, pyrazolyl or pyrrolyl group, this group being optionally substituted with one or more substituents selected, independently in each instance, from: cyano, halogen, (C₁-C₆)alkyl, OR'₄, CH₂OH, CH₂NH₂, S(O)_nR'₄ and OR₈;

20 wherein:

R'₄ is a (C₁-C₆)alkyl group;

n is equal to 1; and

R₈ is a halo(C₁-C₆)alkyl group;

25 or a pharmaceutically acceptable salt thereof.

12. A compound according to any one of Claims 1 to 11, wherein it is selected from the following compounds:

30 2-({2-methoxy-4-[4-(pyrrolidin-1-yl)piperidin-1-yl]phenyl}amino)-7-phenylthieno[3,2-d]pyrimidine-6-carboxamide;

2-({2-methyl-4-[4-(pyrrolidin-1-yl)piperidin-1-yl]phenyl}amino)-7-phenylthieno[3,2-d]pyrimidine-6-carboxamide;

7-(3-chlorophenyl)-2-({2-methoxy-4-[4-(pyrrolidin-1-yl)piperidin-1-yl]phenyl}amino)thieno[3,2-d]pyrimidine-6-carboxamide;

35 7-(4-chlorophenyl)-2-({2-methoxy-4-[4-(pyrrolidin-1-yl)piperidin-1-yl]phenyl}amino)thieno[3,2-d]pyrimidine-6-carboxamide;

2-({2-methoxy-4-[4-(pyrrolidin-1-yl)piperidin-1-yl]phenyl}amino)-7-(thiophen-3-yl)thieno[3,2-d]pyrimidine-6-carboxamide;

2-({2-methoxy-4-[4-(pyrrolidin-1-yl)piperidin-1-yl]phenyl}amino)-7-(thiophen-2-yl)thieno[3,2-d]pyrimidine-6-carboxamide;

2-({2-methoxy-4-[4-(propan-2-yl)piperazin-1-yl]phenyl}amino)-7-phenylthieno[3,2-d]pyrimidine-6-carboxamide;

2-({2-methoxy-4-[1-(propan-2-yl)piperidin-4-yl]phenyl}amino)-7-phenylthieno[3,2-d]pyrimidine-6-carboxamide;

7-(2-methoxyphenyl)-2-{[4-(4-methylpiperazin-1-yl)-2-(propan-2-yloxy)phenyl]amino}thieno[3,2-d]pyrimidine-6-carboxamide;

7-(4-fluoro-3-methoxyphenyl)-2-{[4-(4-methylpiperazin-1-yl)-2-(propan-2-yloxy)phenyl]amino}thieno[3,2-d]pyrimidine-6-carboxamide;

7-(4-methoxyphenyl)-2-{[4-(4-methylpiperazin-1-yl)-2-(propan-2-yloxy)phenyl]amino}thieno[3,2-d]pyrimidine-6-carboxamide;

7-(4-fluorophenyl)-2-{[4-(4-methylpiperazin-1-yl)-2-(propan-2-yloxy)phenyl]amino}thieno[3,2-d]pyrimidine-6-carboxamide;

2-{[2-methoxy-5-methyl-4-(1-methylpiperidin-4-yl)phenyl]amino}-7-phenylthieno[3,2-d]pyrimidine-6-carboxamide;

7-(4-fluoro-2-methoxyphenyl)-2-{[2-methoxy-4-(4-methylpiperazin-1-yl)phenyl]amino}thieno[3,2-d]pyrimidine-6-carboxamide;

2-{[2-methoxy-4-(4-methylpiperazin-1-yl)phenyl]amino}-7-(3-methoxyphenyl)thieno[3,2-d]pyrimidine-6-carboxamide;

7-(2-methoxyphenyl)-2-{[4-(1-methylpiperidin-4-yl)-2-(propan-2-yloxy)phenyl]amino}thieno[3,2-d]pyrimidine-6-carboxamide;

2-{[5-methyl-4-(1-methylpiperidin-4-yl)-2-(propan-2-yloxy)phenyl]amino}-7-phenylthieno[3,2-d]pyrimidine-6-carboxamide;

2-{[2-methoxy-5-methyl-4-(1-methylpiperidin-3-yl)phenyl]amino}-7-phenylthieno[3,2-d]pyrimidine-6-carboxamide;

2-({2-methoxy-4-[1-(propan-2-yl)piperidin-4-yl]phenyl}amino)-7-phenylthieno[3,2-d]pyrimidine-6-carboxamide;

2-{[4-(1-methylpiperidin-4-yl)-2-(propan-2-yloxy)phenyl]amino}-7-(1-methyl-1H-pyrazol-5-yl)thieno[3,2-d]pyrimidine-6-carboxamide;

7-(2-ethoxyphenyl)-2-{[4-(1-methylpiperidin-4-yl)-2-(propan-2-yloxy)phenyl]amino}thieno[3,2-d]pyrimidine-6-carboxamide;

7-(3-methoxyphenyl)-2-{[4-(1-methylpiperidin-4-yl)-2-(propan-2-yloxy)phenyl]amino}thieno[3,2-d]pyrimidine-6-carboxamide;

2-[[5-methyl-4-(1-methylpiperidin-4-yl)-2-(propan-2-yloxy)phenyl]amino]-7-(pyridin-2-yl)thieno[3,2-d]pyrimidine-6-carboxamide;

2-[[4-(4-methyl-1,4-diazepan-1-yl)-2-(propan-2-yloxy)phenyl]amino]-7-phenylthieno[3,2-d]pyrimidine-6-carboxamide;

7-(2-fluoro-5-methoxyphenyl)-2-[[4-(1-methylpiperidin-4-yl)-2-(propan-2-yloxy)-phenyl]amino]thieno[3,2-d]pyrimidine-6-carboxamide;

7-(3-cyanophenyl)-2-[[4-(1-methylpiperidin-4-yl)-2-(propan-2-yloxy)phenyl]-amino]thieno[3,2-d]pyrimidine-6-carboxamide;

2-[[4-(1-methylpiperidin-4-yl)-2-(propan-2-yloxy)phenyl]amino]-7-[2-(trifluoromethoxy)phenyl]thieno[3,2-d]pyrimidine-6-carboxamide;

2-[[4-(1-methylpiperidin-4-yl)-2-(propan-2-yloxy)phenyl]amino]-7-phenylthieno[3,2-d]pyrimidine-6-carboxamide;

2-[[4-[(1S,4S)-5-methyl-2,5-diazabicyclo[2.2.1]hept-2-yl]-2-(propan-2-yloxy)-phenyl]amino]-7-phenylthieno[3,2-d]pyrimidine-6-carboxamide;

2-[[4-(1-methylpiperidin-4-yl)-2-(propan-2-yloxy)phenyl]amino]-7-(1-methyl-1,2,3,6-tetrahydropyridin-4-yl)thieno[3,2-d]pyrimidine-6-carboxamide;

7-(2-methoxyphenyl)-2-[[5-methyl-4-(1-methylpiperidin-4-yl)-2-(propan-2-yloxy)phenyl]amino]thieno[3,2-d]pyrimidine-6-carboxamide;

2-[[4-methoxy-2-(propan-2-yloxy)phenyl]amino]-7-phenylthieno[3,2-d]-pyrimidine-6-carboxamide;

2-[[4-(1-methylpiperidin-4-yl)-2-(propan-2-yloxy)phenyl]amino]-7-[3-(methylsulfinyl)phenyl]thieno[3,2-d]pyrimidine-6-carboxamide;

7-(2-methoxypyridin-3-yl)-2-[[4-(1-methylpiperidin-4-yl)-2-(propan-2-yloxy)-phenyl]amino]thieno[3,2-d]pyrimidine-6-carboxamide;

7-(2-cyanophenyl)-2-[[4-(1-methylpiperidin-4-yl)-2-(propan-2-yloxy)phenyl]-amino]thieno[3,2-d]pyrimidine-6-carboxamide;

2-[[4-(1H-imidazol-1-yl)-2-(propan-2-yloxy)phenyl]amino]-7-phenylthieno[3,2-d]pyrimidine-6-carboxamide;

2-[[4-{methyl[2-(pyrrolidin-1-yl)ethyl]amino}-2-(propan-2-yloxy)phenyl]amino]-7-phenylthieno[3,2-d]pyrimidine-6-carboxamide;

7-(2-methoxyphenyl)-2-[[6-(4-methylpiperazin-1-yl)-4-(propan-2-yloxy)pyridin-3-yl]amino]thieno[3,2-d]pyrimidine-6-carboxamide;

7-(2-methoxyphenyl)-2-[[6-(1-methylpiperidin-4-yl)-4-(propan-2-yloxy)pyridin-3-yl]amino]thieno[3,2-d]pyrimidine-6-carboxamide;

7-(5-fluoro-2-methoxyphenyl)-2-[[4-(1-methylpiperidin-4-yl)-2-(propan-2-yloxy)-phenyl]amino]thieno[3,2-d]pyrimidine-6-carboxamide;

7-(3-fluoro-2-methoxyphenyl)-2-{{4-(1-methylpiperidin-4-yl)-2-(propan-2-yloxy)-phenyl}amino}thieno[3,2-d]pyrimidine-6-carboxamide;

2-{{4-(1-methylpiperidin-4-yl)-2-(propan-2-yloxy)phenyl}amino}-7-[2-(methylsulfinyl)phenyl]thieno[3,2-d]pyrimidine-6-carboxamide;

2-{{4-[3-(dimethylamino)pyrrolidin-1-yl]-2-(propan-2-yloxy)phenyl}amino}-7-(2-methoxyphenyl)thieno[3,2-d]pyrimidine-6-carboxamide;

7-(2-methoxyphenyl)-2-{{4-{methyl[2-(pyrrolidin-1-yl)ethyl]amino}-2-(propan-2-yloxy)phenyl}amino}thieno[3,2-d]pyrimidine-6-carboxamide;

7-(2-fluoro-3-methoxyphenyl)-2-{{4-(1-methylpiperidin-4-yl)-2-(propan-2-yloxy)-phenyl}amino}thieno[3,2-d]pyrimidine-6-carboxamide;

2-{{4-(1-ethylpiperidin-3-yl)-2-(propan-2-yloxy)phenyl}amino}-7-(2-methoxyphenyl)thieno[3,2-d]pyrimidine-6-carboxamide;

7-(2-fluorophenyl)-2-{{4-(1-methylpiperidin-4-yl)-2-(propan-2-yloxy)phenyl}amino}thieno[3,2-d]pyrimidine-6-carboxamide;

2-{{4-(1-methylpiperidin-4-yl)-2-(propan-2-yloxy)phenyl}amino}-7-(1H-pyrrol-2-yl)thieno[3,2-d]pyrimidine-6-carboxamide;

7-[2-fluoro-5-(hydroxymethyl)phenyl]-2-{{4-(1-methylpiperidin-4-yl)-2-(propan-2-yloxy)phenyl}amino}thieno[3,2-d]pyrimidine-6-carboxamide;

2-{{4-(5-methoxy-1-methyl-1,2,3,6-tetrahydropyridin-4-yl)-2-(propan-2-yloxy)-phenyl}amino}-7-(2-methoxyphenyl)thieno[3,2-d]pyrimidine-6-carboxamide;

7-(4-fluoro-2-methoxyphenyl)-2-{{4-(4-methylpiperazin-1-yl)-2-(propan-2-yloxy)-phenyl}amino}thieno[3,2-d]pyrimidine-6-carboxamide;

2-{{4-(1H-imidazol-1-yl)-2-(propan-2-yloxy)phenyl}amino}-7-(2-methoxyphenyl)-thieno[3,2-d]pyrimidine-6-carboxamide;

2-methylpropan-2-yl 4-[5-{{6-carbamoyl-7-(2-methoxyphenyl)thieno[3,2-d]pyrimidin-2-yl}amino}-1-(propan-2-yl)-1H-pyrazol-3-yl]piperidine-1-carboxylate;

7-(2-methoxyphenyl)-2-{{2-(propan-2-yloxy)-4-(2,2,6,6-tetramethylpiperidin-4-yl)phenyl}amino}thieno[3,2-d]pyrimidine-6-carboxamide;

2-{{4-(2,6-dimethylpiperidin-4-yl)-2-(propan-2-yloxy)phenyl}amino}-7-(2-methoxyphenyl)thieno[3,2-d]pyrimidine-6-carboxamide;

2-{{4-(2-ethylpiperidin-4-yl)-2-(propan-2-yloxy)phenyl}amino}-7-(2-methoxyphenyl)thieno[3,2-d]pyrimidine-6-carboxamide;

7-(2-methoxyphenyl)-2-{{4-(piperidin-4-yl)-2-(propan-2-yloxy)phenyl}amino}-thieno[3,2-d]pyrimidine-6-carboxamide;

7-(4-fluoro-2-methoxyphenyl)-2-{{4-(1-methylpiperidin-4-yl)-2-(propan-2-yloxy)-phenyl}amino}thieno[3,2-d]pyrimidine-6-carboxamide;

2-{{4-(3,5-dimethylpiperazin-1-yl)-2-(propan-2-yloxy)phenyl}amino}-7-(2-methoxyphenyl)thieno[3,2-d]pyrimidine-6-carboxamide;

7-(2-methoxyphenyl)-2-{{2-(propan-2-yloxy)-4-(3,4,5-trimethylpiperazin-1-yl)-phenyl}amino}thieno[3,2-d]pyrimidine-6-carboxamide;

2-{{4-[(8aR)-hexahydropyrrolo[1,2-a]pyrazin-2(1H)-yl]-2-(propan-2-yloxy)-phenyl}amino}-7-(2-methoxyphenyl)thieno[3,2-d]pyrimidine-6-carboxamide;

7-(2-methoxyphenyl)-2-{{3-(piperidin-4-yl)-1-(propan-2-yl)-1H-pyrazol-5-yl}amino}thieno[3,2-d]pyrimidine-6-carboxamide;

2-{{4-[(3R)-1-ethylpiperidin-3-yl]-2-(propan-2-yloxy)phenyl}amino}-7-(2-methoxyphenyl)thieno[3,2-d]pyrimidine-6-carboxamide;

2-{{4-[(3S)-1-ethylpiperidin-3-yl]-2-(propan-2-yloxy)phenyl}amino}-7-(2-methoxyphenyl)thieno[3,2-d]pyrimidine-6-carboxamide;

2-{{4-(1-methylpiperidin-4-yl)-2-(propan-2-yloxy)phenyl}amino}-7-(thiophen-3-yl)thieno[3,2-d]pyrimidine-6-carboxamide;

7-(5-fluoro-2-methoxypyridin-4-yl)-2-{{4-(1-methylpiperidin-4-yl)-2-(propan-2-yloxy)phenyl}amino}thieno[3,2-d]pyrimidine-6-carboxamide;

7-(2-methoxyphenyl)-2-{{2-(propan-2-yloxy)-4-[(2R,4S)-2-(propan-2-yl)-piperidin-4-yl]phenyl}amino}thieno[3,2-d]pyrimidine-6-carboxamide;

7-(2-methoxyphenyl)-2-{{2-(propan-2-yloxy)-4-[(2R,4R)-2-(propan-2-yl)-piperidin-4-yl]phenyl}amino}thieno[3,2-d]pyrimidine-6-carboxamide;

7-(2-chlorophenyl)-2-{{4-(1-methylpiperidin-4-yl)-2-(propan-2-yloxy)phenyl}amino}thieno[3,2-d]pyrimidine-6-carboxamide;

2-{{4-[(8aR)-hexahydropyrrolo[1,2-a]pyrazin-2(1H)-yl]-2-(propan-2-yloxy)-phenyl}amino}-7-(2-methoxypyridin-3-yl)thieno[3,2-d]pyrimidine-6-carboxamide;

7-(3-chlorophenyl)-2-{{4-(1-methylpiperidin-4-yl)-2-(propan-2-yloxy)phenyl}amino}thieno[3,2-d]pyrimidine-6-carboxamide;

7-(2-methylphenyl)-2-{{4-(1-methylpiperidin-4-yl)-2-(propan-2-yloxy)phenyl}amino}thieno[3,2-d]pyrimidine-6-carboxamide;

2-{{4-(1-methylpiperidin-4-yl)-2-(propan-2-yloxy)phenyl}amino}-7-(1-methyl-1H-pyrazol-4-yl)thieno[3,2-d]pyrimidine-6-carboxamide;

7-(2,5-dimethoxyphenyl)-2-{{4-(1-methylpiperidin-4-yl)-2-(propan-2-yloxy)-phenyl}amino}thieno[3,2-d]pyrimidine-6-carboxamide;

7-[2-(difluoromethoxy)phenyl]-2-{{4-(1-methylpiperidin-4-yl)-2-(propan-2-yloxy)-phenyl}amino}thieno[3,2-d]pyrimidine-6-carboxamide;

2-[[4-(1-methylpiperidin-4-yl)-2-(propan-2-yloxy)phenyl]amino}-7-(1H-pyrazol-4-yl)thieno[3,2-d]pyrimidine-6-carboxamide;

2-({4-[3-(2-hydroxyethyl)-4-methylpiperazin-1-yl]-2-(propan-2-yloxy)-phenyl}amino)-7-(2-methoxyphenyl)thieno[3,2-d]pyrimidine-6-carboxamide;

7-(2-methoxypyridin-3-yl)-2-[[5-methyl-4-(1-methylpiperidin-4-yl)-2-(propan-2-yloxy)phenyl]amino]thieno[3,2-d]pyrimidine-6-carboxamide;

7-(2-methoxypyridin-3-yl)-2-{{4-(4-methylpiperazin-1-yl)-2-(propan-2-yloxy)-phenyl}amino}thieno[3,2-d]pyrimidine-6-carboxamide;

2-({4-[1-(2-hydroxyethyl)piperidin-4-yl]-2-(propan-2-yloxy)phenyl}amino)-7-(2-methoxyphenyl)thieno[3,2-d]pyrimidine-6-carboxamide;

7-(2-methoxyphenyl)-2-{{4-(3-methoxypyridin-4-yl)-2-(propan-2-yloxy)phenyl}amino}thieno[3,2-d]pyrimidine-6-carboxamide;

7-(2-methoxyphenyl)-2-{{6-(4-methylpiperazin-1-yl)-2-(propan-2-yloxy)pyridin-3-yl}amino}thieno[3,2-d]pyrimidine-6-carboxamide;

7-(2-methoxyphenyl)-2-{{4-(1,2,2,6,6-pentamethylpiperidin-4-yl)-2-(propan-2-yloxy)phenyl}amino}thieno[3,2-d]pyrimidine-6-carboxamide;

2-({4-[(2S,4S)-2-ethyl-1-methylpiperidin-4-yl]-2-(propan-2-yloxy)phenyl}amino)-7-(2-methoxyphenyl)thieno[3,2-d]pyrimidine-6-carboxamide;

2-({4-[(2S,4R)-2-ethyl-1-methylpiperidin-4-yl]-2-(propan-2-yloxy)phenyl}amino)-7-(2-methoxyphenyl)thieno[3,2-d]pyrimidine-6-carboxamide;

7-(2-methoxypyridin-3-yl)-2-({2-(propan-2-yloxy)-4-[1-(propan-2-yl)piperidin-4-yl]phenyl}amino)thieno[3,2-d]pyrimidine-6-carboxamide;

7-(5-fluoro-2-methoxypyridin-3-yl)-2-[[4-(1-methylpiperidin-4-yl)-2-(propan-2-yloxy)phenyl]amino]thieno[3,2-d]pyrimidine-6-carboxamide;

7-(5-fluoro-2-methoxypyridin-3-yl)-2-({2-(propan-2-yloxy)-4-[1-(propan-2-yl)piperidin-4-yl]phenyl}amino)thieno[3,2-d]pyrimidine-6-carboxamide;

7-(5-fluoro-2-methoxypyridin-3-yl)-2-[[5-methyl-4-(1-methylpiperidin-4-yl)-2-(propan-2-yloxy)phenyl]amino]thieno[3,2-d]pyrimidine-6-carboxamide;

7-(6-methoxypyridin-2-yl)-2-[[4-(1-methylpiperidin-4-yl)-2-(propan-2-yloxy)-phenyl]amino]thieno[3,2-d]pyrimidine-6-carboxamide;

7-(2-chlorophenyl)-2-({4-[1-(2-hydroxyethyl)piperidin-4-yl]-2-(propan-2-yloxy)-phenyl}amino)thieno[3,2-d]pyrimidine-6-carboxamide;

7-(2-methoxyphenyl)-2-{{6-(1-methylpiperidin-4-yl)-2-(propan-2-yloxy)pyridin-3-yl}amino}thieno[3,2-d]pyrimidine-6-carboxamide;

2-[[4-(1,7-diazaspiro[4.4]non-7-yl)-2-(propan-2-yloxy)phenyl]amino]-7-(2-methoxyphenyl)thieno[3,2-d]pyrimidine-6-carboxamide;

2-({4-[3-(diethylamino)pyrrolidin-1-yl]-2-(propan-2-yloxy)phenyl}amino)-7-(2-methoxypyridin-3-yl)thieno[3,2-d]pyrimidine-6-carboxamide;

2-({4-[3-(dimethylamino)pyrrolidin-1-yl]-2-(propan-2-yloxy)phenyl}amino)-7-(1-methyl-1H-pyrrol-2-yl)thieno[3,2-d]pyrimidine-6-carboxamide;

2-[[4-(1-methylpiperidin-4-yl)-2-(propan-2-yloxy)phenyl]amino]-7-(1-methyl-1H-pyrrol-2-yl)thieno[3,2-d]pyrimidine-6-carboxamide;

2-[[4-(1-methylpiperidin-4-yl)-2-(propan-2-yloxy)phenyl]amino]-7-(2-methylpyridin-3-yl)thieno[3,2-d]pyrimidine-6-carboxamide;

7-(furan-2-yl)-2-[[4-(1-methylpiperidin-4-yl)-2-(propan-2-yloxy)phenyl]amino]thieno[3,2-d]pyrimidine-6-carboxamide;

7-[5-(aminomethyl)furan-2-yl]-2-[[4-(1-methylpiperidin-4-yl)-2-(propan-2-yloxy)phenyl]amino]thieno[3,2-d]pyrimidine-6-carboxamide;

7-(2-methoxypyridin-3-yl)-2-[[5-methyl-4-(4-methylpiperazin-1-yl)-2-(propan-2-yloxy)phenyl]amino]thieno[3,2-d]pyrimidine-6-carboxamide;

2-[[4-(1-methylpiperidin-4-yl)-2-(propan-2-yloxy)phenyl]amino]-7-(1H-pyrrol-3-yl)thieno[3,2-d]pyrimidine-6-carboxamide;

2-({4-[3-(dimethylamino)pyrrolidin-1-yl]-2-(propan-2-yloxy)phenyl}amino)-7-(2-methoxypyridin-3-yl)thieno[3,2-d]pyrimidine-6-carboxamide;

7-(2-ethoxypyridin-3-yl)-2-({2-(propan-2-yloxy)-4-[1-(propan-2-yl)piperidin-4-yl]phenyl}amino)thieno[3,2-d]pyrimidine-6-carboxamide;

7-(2-ethoxypyridin-3-yl)-2-[[5-methyl-4-(1-methylpiperidin-4-yl)-2-(propan-2-yloxy)phenyl]amino]thieno[3,2-d]pyrimidine-6-carboxamide;

7-(2-methoxyphenyl)-2-[[5-methyl-4-(4-methylpiperazin-1-yl)-2-(propan-2-yloxy)phenyl]amino]thieno[3,2-d]pyrimidine-6-carboxamide;

7-(2-ethoxypyridin-3-yl)-2-[[4-(1-methylpiperidin-4-yl)-2-(propan-2-yloxy)phenyl]amino]thieno[3,2-d]pyrimidine-6-carboxamide;

7-(2-ethoxypyridin-3-yl)-2-[[4-(4-methylpiperazin-1-yl)-2-(propan-2-yloxy)phenyl]amino]thieno[3,2-d]pyrimidine-6-carboxamide;

7-(2-methoxy-5-methylpyridin-3-yl)-2-[[4-(4-methylpiperazin-1-yl)-2-(propan-2-yloxy)phenyl]amino]thieno[3,2-d]pyrimidine-6-carboxamide;

7-(2-methoxy-5-methylpyridin-3-yl)-2-[[4-(1-methylpiperidin-4-yl)-2-(propan-2-yloxy)phenyl]amino]thieno[3,2-d]pyrimidine-6-carboxamide;

7-(5-fluoro-2-methoxypyridin-3-yl)-2-[[4-(4-methylpiperazin-1-yl)-2-(propan-2-yloxy)phenyl]amino]thieno[3,2-d]pyrimidine-6-carboxamide;

7-(2-methoxy-5-methylpyridin-3-yl)-2-[[5-methyl-4-(1-methylpiperidin-4-yl)-2-(propan-2-yloxy)phenyl]amino]thieno[3,2-d]pyrimidine-6-carboxamide;

2-[[4-(1-methylpiperidin-4-yl)-2-(propan-2-yloxy)phenyl]amino]-7-(1-methyl-1H-pyrazol-3-yl)thieno[3,2-d]pyrimidine-6-carboxamide;

2-({4-[3-(2-methoxyethyl)-4-methylpiperazin-1-yl]-2-(propan-2-yloxy)-phenyl}amino)-7-(2-methoxyphenyl)thieno[3,2-d]pyrimidine-6-carboxamide;

7-(2-methoxyphenyl)-2-[[4-((3R)-3-[methyl(oxetan-3-yl)amino]piperidin-1-yl)-2-(propan-2-yloxy)phenyl]amino]thieno[3,2-d]pyrimidine-6-carboxamide;

7-(2-methylfuran-3-yl)-2-[[4-(1-methylpiperidin-4-yl)-2-(propan-2-yloxy)-phenyl]amino]thieno[3,2-d]pyrimidine-6-carboxamide;

7-(6-methoxypyridin-2-yl)-2-[[5-methyl-4-(1-methylpiperidin-4-yl)-2-(propan-2-yloxy)phenyl]amino]thieno[3,2-d]pyrimidine-6-carboxamide;

2-({4-[3-(dimethylamino)pyrrolidin-1-yl]-5-methyl-2-(propan-2-yloxy)-phenyl}amino)-7-(2-methoxypyridin-3-yl)thieno[3,2-d]pyrimidine-6-carboxamide;

2-({4-[3-(dimethylamino)pyrrolidin-1-yl]-5-methyl-2-(propan-2-yloxy)-phenyl}amino)-7-(2-methoxyphenyl)thieno[3,2-d]pyrimidine-6-carboxamide;

2-({3-[1-(oxetan-3-yl)piperidin-4-yl]-1-(propan-2-yl)-1H-pyrazol-5-yl}amino)-7-[2-(trifluoromethoxy)phenyl]thieno[3,2-d]pyrimidine-6-carboxamide;

7-(2-methoxy-6-methylpyridin-3-yl)-2-[[5-methyl-4-(1-methylpiperidin-4-yl)-2-(propan-2-yloxy)phenyl]amino]thieno[3,2-d]pyrimidine-6-carboxamide;

7-(2-methoxy-6-methylpyridin-3-yl)-2-[[4-(4-methylpiperazin-1-yl)-2-(propan-2-yloxy)phenyl]amino]thieno[3,2-d]pyrimidine-6-carboxamide;

7-(2-methoxy-6-methylpyridin-3-yl)-2-[[4-(1-methylpiperidin-4-yl)-2-(propan-2-yloxy)phenyl]amino]thieno[3,2-d]pyrimidine-6-carboxamide;

2-[[3-(1-ethylpiperidin-4-yl)-1-(propan-2-yl)-1H-pyrazol-5-yl]amino]-7-[2-(trifluoromethoxy)phenyl]thieno[3,2-d]pyrimidine-6-carboxamide;

2-({4-[(3R,4S)-3-hydroxy-1-methylpiperidin-4-yl]-2-(propan-2-yloxy)-phenyl}amino)-7-(2-methoxyphenyl)thieno[3,2-d]pyrimidine-6-carboxamide;

7-(2-methoxypyridin-3-yl)-2-({4-[(8S,8aS)-octahydroindolizin-8-yl]-2-(propan-2-yloxy)phenyl}amino)thieno[3,2-d]pyrimidine-6-carboxamide;

7-(2-methoxypyridin-3-yl)-2-({4-[(8R,8aS)-octahydroindolizin-8-yl]-2-(propan-2-yloxy)phenyl}amino)thieno[3,2-d]pyrimidine-6-carboxamide

7-(2-methoxyphenyl)-2-[[4-(1-methyl-1H-pyrazol-4-yl)-2-(propan-2-yloxy)-phenyl]amino]thieno[3,2-d]pyrimidine-6-carboxamide;

7-(2-methoxypyridin-3-yl)-2-[(1-methyl-2-oxo-2,3,4,5-tetrahydro-1H-1-benzazepin-8-yl)amino]thieno[3,2-d]pyrimidine-6-carboxamide;

7-(2-methoxypyridin-3-yl)-2-[[4-(2-methyl-1H-imidazol-1-yl)-2-(propan-2-yloxy)-phenyl]amino]thieno[3,2-d]pyrimidine-6-carboxamide;

2-[[5-fluoro-4-(1-methylpiperidin-4-yl)-2-(propan-2-yloxy)phenyl]amino]-7-(2-methoxyphenyl)thieno[3,2-d]pyrimidine-6-carboxamide;

2-[[5-fluoro-4-(1-methylpiperidin-4-yl)-2-(propan-2-yloxy)phenyl]amino]-7-(2-methoxypyridin-3-yl)thieno[3,2-d]pyrimidine-6-carboxamide;

7-(2-methoxypyridin-3-yl)-2-[[5-methyl-4-(2-methyl-1H-imidazol-1-yl)-2-(propan-2-yloxy)phenyl]amino]thieno[3,2-d]pyrimidine-6-carboxamide;

7-(2-methoxyphenyl)-2-[[2-(propan-2-yloxy)-4-(1H-1,2,4-triazol-1-yl)phenyl]amino]thieno[3,2-d]pyrimidine-6-carboxamide;

7-(2-methoxyphenyl)-2-[(1-phenyl-1H-pyrazol-5-yl)amino]thieno[3,2-d]pyrimidine-6-carboxamide;

7-(2-methoxyphenyl)-2-[[4-(1-methyl-1H-pyrazol-3-yl)-2-(propan-2-yloxy)phenyl]amino]thieno[3,2-d]pyrimidine-6-carboxamide;

7-(2-methoxypyridin-3-yl)-2-[[3-methyl-1-(propan-2-yl)-1H-pyrazol-5-yl]amino]thieno[3,2-d]pyrimidine-6-carboxamide;

7-(2-fluorophenyl)-2-[[5-methyl-4-(1-methylpiperidin-4-yl)-2-(propan-2-yloxy)phenyl]amino]thieno[3,2-d]pyrimidine-6-carboxamide;

7-(2-methoxyphenyl)-2-[(1-methyl-2-oxo-2,3,4,5-tetrahydro-1H-1-benzazepin-8-yl)amino]thieno[3,2-d]pyrimidine-6-carboxamide;

7-(4-fluoro-2-methoxyphenyl)-2-[[3-(piperidin-3-yl)-1-(propan-2-yl)-1H-pyrazol-5-yl]amino]thieno[3,2-d]pyrimidine-6-carboxamide;

2-[[3-cyclopropyl-1-(propan-2-yl)-1H-pyrazol-5-yl]amino]-7-(2-methoxypyridin-3-yl)thieno[3,2-d]pyrimidine-6-carboxamide;

7-(4-fluoro-2-methoxyphenyl)-2-[[1-(propan-2-yl)-3-(pyridin-3-yl)-1H-pyrazol-5-yl]amino]thieno[3,2-d]pyrimidine-6-carboxamide;

7-(2-methoxypyridin-3-yl)-2-[(1-methyl-2-oxo-2,3,4,5-tetrahydro-1H-1-benzazepin-7-yl)amino]thieno[3,2-d]pyrimidine-6-carboxamide;

7-(4-fluoro-2-methoxyphenyl)-2-[[2-(propan-2-yloxy)-4-(1H-1,2,4-triazol-1-yl)phenyl]amino]thieno[3,2-d]pyrimidine-6-carboxamide;

2-[[4-(2,4-dimethyl-1H-imidazol-1-yl)-2-(propan-2-yloxy)phenyl]amino]-7-(2-methoxypyridin-3-yl)thieno[3,2-d]pyrimidine-6-carboxamide;

2-[[4-methoxy-2-(propan-2-yloxy)phenyl]amino]-7-(2-methoxypyridin-3-yl)thieno[3,2-d]pyrimidine-6-carboxamide;

2-[(3-cyclopropyl-1-phenyl-1H-pyrazol-5-yl)amino]-7-(2-methoxyphenyl)thieno[3,2-d]pyrimidine-6-carboxamide;

2-[[4-(5,6-dihydroimidazo[1,2-a]pyrazin-7(8H)-yl)-2-(propan-2-yloxy)phenyl]amino]-7-(2-methoxypyridin-3-yl)thieno[3,2-d]pyrimidine-6-carboxamide;

2-[[4-(1-cyclopropylpiperidin-4-yl)-2-(propan-2-yloxy)phenyl]amino]-7-(2-methoxyphenyl)thieno[3,2-d]pyrimidine-6-carboxamide;
2-[[4-(1-cyclopropylpiperidin-4-yl)-2-(propan-2-yloxy)phenyl]amino]-7-(5-fluoro-2-methoxyphenyl)thieno[3,2-d]pyrimidine-6-carboxamide;
5 2-[[4-(1-cyclopropylpiperidin-4-yl)-2-(propan-2-yloxy)phenyl]amino]-7-(2-methoxypyridin-3-yl)thieno[3,2-d]pyrimidine-6-carboxamide;
7-(2-methoxypyridin-3-yl)-2-[[4-(4-methyl-1H-imidazol-1-yl)-2-(propan-2-yloxy)phenyl]amino]thieno[3,2-d]pyrimidine-6-carboxamide;
7-(4-fluoro-2-methoxyphenyl)-2-[(1-methyl-2-oxo-2,3,4,5-tetrahydro-1H-1-benzazepin-7-yl)amino]thieno[3,2-d]pyrimidine-6-carboxamide;
10 2-[[4-(4-methylpiperazin-1-yl)-2-(propan-2-yloxy)phenyl]amino]-7-(1-oxidopyridin-2-yl)thieno[3,2-d]pyrimidine-6-carboxamide;
2-[[4-(1-ethyl-1,7-diazaspiro[4.4]non-7-yl)-2-(propan-2-yloxy)phenyl]amino]-7-(2-methoxyphenyl)thieno[3,2-d]pyrimidine-6-carboxamide;
15 7-(2-ethoxypyridin-3-yl)-2-[[5-methyl-4-(4-methylpiperazin-1-yl)-2-(propan-2-yloxy)phenyl]amino]thieno[3,2-d]pyrimidine-6-carboxamide;
2-[[4-(3,5-dimethyl-1H-1,2,4-triazol-1-yl)-2-(propan-2-yloxy)phenyl]amino]-7-(2-methoxyphenyl)thieno[3,2-d]pyrimidine-6-carboxamide;
7-(5-fluoro-2-methoxypyridin-3-yl)-2-[[5-methyl-4-(4-methylpiperazin-1-yl)-2-(propan-2-yloxy)phenyl]amino]thieno[3,2-d]pyrimidine-6-carboxamide;
20 7-(2-methoxy-6-methylpyridin-3-yl)-2-[[4-(2-methyl-1H-imidazol-1-yl)-2-(propan-2-yloxy)phenyl]amino]thieno[3,2-d]pyrimidine-6-carboxamide;
7-(2-methoxyphenyl)-2-((4-[(4-methylpiperazin-1-yl)methyl]-2-(propan-2-yloxy)phenyl)amino)thieno[3,2-d]pyrimidine-6-carboxamide;
25 7-(2-methoxy-6-methylpyridin-3-yl)-2-[[5-methyl-4-(4-methylpiperazin-1-yl)-2-(propan-2-yloxy)phenyl]amino]thieno[3,2-d]pyrimidine-6-carboxamide;
7-(2-methoxyphenyl)-2-[[1-methyl-2-oxo-6-(propan-2-yloxy)-2,3,4,5-tetrahydro-1H-1-benzazepin-7-yl]amino]thieno[3,2-d]pyrimidine-6-carboxamide;
7-(2-methoxypyridin-3-yl)-2-[[1-methyl-2-oxo-6-(propan-2-yloxy)-2,3,4,5-tetrahydro-1H-1-benzazepin-7-yl]amino]thieno[3,2-d]pyrimidine-6-carboxamide;
30 7-(2-methoxyphenyl)-2-[[5-(4-methylpiperazin-1-yl)-2-(propan-2-yloxy)phenyl]amino]thieno[3,2-d]pyrimidine-6-carboxamide;
7-(2-methoxyphenyl)-2-[[2-(propan-2-yloxy)-4-(tetrahydro-2H-pyran-4-ylamino)phenyl]amino]thieno[3,2-d]pyrimidine-6-carboxamide;
35 7-(3-methoxypyridin-2-yl)-2-[[5-methyl-4-(4-methylpiperazin-1-yl)-2-(propan-2-yloxy)phenyl]amino]thieno[3,2-d]pyrimidine-6-carboxamide;

2-[[4-(4-hydroxypiperidin-1-yl)-2-(propan-2-yloxy)phenyl]amino]-7-(2-methoxypyridin-3-yl)thieno[3,2-d]pyrimidine-6-carboxamide;

7-(2-methoxyphenyl)-2-({4-[(1-methylpiperidin-4-yl)amino]-2-(propan-2-yloxy)phenyl}amino)thieno[3,2-d]pyrimidine-6-carboxamide;

2-[[1-cyclobutyl-3-(1-ethylpiperidin-4-yl)-1H-pyrazol-5-yl]amino]-7-(4-fluoro-2-methoxyphenyl)thieno[3,2-d]pyrimidine-6-carboxamide;

7-(2-methoxypyridin-3-yl)-2-({4-[(4-methylpiperazin-1-yl)methyl]-2-(propan-2-yloxy)phenyl}amino)thieno[3,2-d]pyrimidine-6-carboxamide;

7-(2-methoxypyridin-3-yl)-2-[[4-(1-methylpyrrolidin-3-yl)-2-(propan-2-yloxy)phenyl]amino]thieno[3,2-d]pyrimidine-6-carboxamide;

7-(2-methoxyphenyl)-2-[[3-(4-methylpiperazin-1-yl)-2-(propan-2-yloxy)phenyl]amino]thieno[3,2-d]pyrimidine-6-carboxamide;

7-(5-fluoro-2-methoxypyridin-3-yl)-2-[[1-(propan-2-yl)-3-(tetrahydro-2H-pyran-4-yl)-1H-pyrazol-5-yl]amino]thieno[3,2-d]pyrimidine-6-carboxamide;

7-(5-fluoro-2-methoxypyridin-3-yl)-2-[[3-methyl-1-(propan-2-yl)-1H-pyrazol-5-yl]amino]thieno[3,2-d]pyrimidine-6-carboxamide;

7-(2-methoxypyridin-3-yl)-2-[(5-methyl-2,3,4,5-tetrahydro-1,5-benzoxazepin-7-yl)amino]thieno[3,2-d]pyrimidine-6-carboxamide;

2-[[1-(propan-2-yl)-3-(tetrahydro-2H-pyran-4-yl)-1H-pyrazol-5-yl]amino]-7-[2-(trifluoromethoxy)phenyl]thieno[3,2-d]pyrimidine-6-carboxamide;

7-(2-methoxypyridin-3-yl)-2-[[3-(4-methylpiperazin-1-yl)-2-(propan-2-yloxy)phenyl]amino]thieno[3,2-d]pyrimidine-6-carboxamide;

7-(2-methoxypyridin-3-yl)-2-[[5-(4-methylpiperazin-1-yl)-2-(propan-2-yloxy)phenyl]amino]thieno[3,2-d]pyrimidine-6-carboxamide;

7-(2-methoxypyridin-3-yl)-2-({4-[(1-methylpiperidin-4-yl)amino]-2-(propan-2-yloxy)phenyl}amino)thieno[3,2-d]pyrimidine-6-carboxamide;

2-[[4-(4-ethylpiperazin-1-yl)-2-(propan-2-yloxy)phenyl]amino]-7-(2-methoxypyridin-3-yl)thieno[3,2-d]pyrimidine-6-carboxamide;

7-(2-methoxyphenyl)-2-[[1-methyl-2-oxo-8-(propan-2-yloxy)-2,3,4,5-tetrahydro-1H-1-benzazepin-7-yl]amino]thieno[3,2-d]pyrimidine-6-carboxamide;

7-(2-methoxyphenyl)-2-[[1-(propan-2-yl)-3-(tetrahydro-2H-pyran-4-yl)-1H-pyrazol-5-yl]amino]thieno[3,2-d]pyrimidine-6-carboxamide;

7-(2-methoxypyridin-3-yl)-2-[[1-methyl-2-oxo-8-(propan-2-yloxy)-2,3,4,5-tetrahydro-1H-1-benzazepin-7-yl]amino]thieno[3,2-d]pyrimidine-6-carboxamide;

7-(2-methoxypyridin-3-yl)-2-[[4-(1-methyl-1H-pyrazol-4-yl)-2-(propan-2-yloxy)phenyl]amino]thieno[3,2-d]pyrimidine-6-carboxamide;

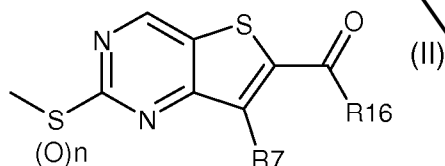
[7-(2-methoxyphenyl)-2-{{4-(1-methylpiperidin-4-yl)-2-(propan-2-yloxy)phenyl}amino}thieno[3,2-d]pyrimidin-6-yl]methanol;
[7-(2-methoxyphenyl)-2-{{4-(4-methylpiperazin-1-yl)-2-(propan-2-yloxy)phenyl}amino}thieno[3,2-d]pyrimidin-6-yl]methanol;
5 [7-(2-methoxy-6-methylpyridin-3-yl)-2-{{4-(4-methylpiperazin-1-yl)-2-(propan-2-yloxy)phenyl}amino}thieno[3,2-d]pyrimidin-6-yl]methanol;
[7-(5-fluoro-2-methoxypyridin-3-yl)-2-{{4-(4-methylpiperazin-1-yl)-2-(propan-2-yloxy)phenyl}amino}thieno[3,2-d]pyrimidin-6-yl]methanol;
[7-(2-ethoxypyridin-3-yl)-2-{{4-(4-methylpiperazin-1-yl)-2-(propan-2-yloxy)phenyl}amino}thieno[3,2-d]pyrimidin-6-yl]methanol;
10 [7-(2-methoxypyridin-3-yl)-2-{{5-methyl-4-(4-methylpiperazin-1-yl)-2-(propan-2-yloxy)phenyl}amino}thieno[3,2-d]pyrimidin-6-yl]methanol;
[7-(5-fluoro-2-methoxypyridin-3-yl)-2-{{5-methyl-4-(4-methylpiperazin-1-yl)-2-(propan-2-yloxy)phenyl}amino}thieno[3,2-d]pyrimidin-6-yl]methanol;
15 [7-(2-methoxy-6-methylpyridin-3-yl)-2-{{5-methyl-4-(4-methylpiperazin-1-yl)-2-(propan-2-yloxy)phenyl}amino}thieno[3,2-d]pyrimidin-6-yl]methanol;
[7-(2-methoxy-6-methylpyridin-3-yl)-2-{{1-(propan-2-yl)-3-(tetrahydro-2H-pyran-4-yl)-1H-pyrazol-5-yl}amino}thieno[3,2-d]pyrimidin-6-yl]methanol;
[7-(2-ethoxypyridin-3-yl)-2-{{5-methyl-4-(4-methylpiperazin-1-yl)-2-(propan-2-yloxy)phenyl}amino}thieno[3,2-d]pyrimidin-6-yl]methanol;
20 [7-(2-methoxyphenyl)-2-{{5-methyl-4-(4-methylpiperazin-1-yl)-2-(propan-2-yloxy)phenyl}amino}thieno[3,2-d]pyrimidin-6-yl]methanol;
[7-(2-methoxy-6-methylpyridin-3-yl)-2-{{4-(1-methyl-1,7-diazaspiro[4.4]non-7-yl)-2-(propan-2-yloxy)phenyl}amino}thieno[3,2-d]pyrimidin-6-yl]methanol;
25 [2-{{4-chloro-2-(propan-2-yloxy)phenyl}amino}-7-(2-methoxypyridin-3-yl)thieno[3,2-d]pyrimidin-6-yl]methanol;
(2-{{3-methyl-1-(propan-2-yl)-1H-pyrazol-5-yl}amino}-7-[2-(trifluoromethoxy)phenyl]thieno[3,2-d]pyrimidin-6-yl]methanol;
[7-(5-fluoro-2-methoxypyridin-3-yl)-2-{{3-methyl-1-(propan-2-yl)-1H-pyrazol-5-yl}amino}thieno[3,2-d]pyrimidin-6-yl]methanol;
30 (2-{{1-(propan-2-yl)-3-(tetrahydro-2H-pyran-4-yl)-1H-pyrazol-5-yl}amino}-7-[2-(trifluoromethoxy)phenyl]thieno[3,2-d]pyrimidin-6-yl]methanol;
[7-(2-methoxyphenyl)-2-{{1-(propan-2-yl)-3-(tetrahydro-2H-pyran-4-yl)-1H-pyrazol-5-yl}amino}thieno[3,2-d]pyrimidin-6-yl]methanol;
35 [7-(5-fluoro-2-methoxyphenyl)-2-{{3-methyl-1-(propan-2-yl)-1H-pyrazol-5-yl}amino}thieno[3,2-d]pyrimidin-6-yl]methanol;

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[7-(5-fluoro-2-methoxyphenyl)-2-[[4-(4-methylpiperazin-1-yl)-2-(propan-2-yloxy)phenyl]amino]thieno[3,2-d]pyrimidin-6-yl]methanol;
 (2-[[4-(4-methylpiperazin-1-yl)-2-(propan-2-yloxy)phenyl]amino]-7-[2-(trifluoromethoxy)phenyl]thieno[3,2-d]pyrimidin-6-yl]methanol;
 [7-(2-methoxypyridin-3-yl)-2-[[4-(1-methyl-1H-pyrazol-4-yl)-2-(propan-2-yloxy)phenyl]amino]thieno[3,2-d]pyrimidin-6-yl]methanol;
 [7-(2-methoxyphenyl)-2-[[4-(1-methyl-1H-pyrazol-4-yl)-2-(propan-2-yloxy)phenyl]amino]thieno[3,2-d]pyrimidin-6-yl]methanol;
 [2-[[5-methyl-4-(4-methylpiperazin-1-yl)-2-(propan-2-yloxy)phenyl]amino]-7-(6-methylpyridin-3-yl)thieno[3,2-d]pyrimidin-6-yl]methanol;
 [7-(2-methoxypyridin-3-yl)-2-[[4-(4-methylpiperazin-1-yl)-2-(propan-2-yloxy)phenyl]amino]thieno[3,2-d]pyrimidin-6-yl]methanol;
 [7-(2-methoxyphenyl)-2-[[4-(1-methylpyrrolidin-3-yl)-2-(propan-2-yloxy)phenyl]amino]thieno[3,2-d]pyrimidin-6-yl]methanol;
 2-(2-[[2-methoxy-4-(4-methylpiperazin-1-yl)phenyl]amino]-7-phenylthieno[3,2-d]pyrimidin-6-yl)propan-2-ol;
 2-[2-[[2-methoxy-4-(4-methylpiperazin-1-yl)phenyl]amino]-7-(2-methoxyphenyl)thieno[3,2-d]pyrimidin-6-yl]propan-2-ol; and
 2-[7-(4-fluoro-2-methoxyphenyl)-2-[[2-methoxy-4-(4-methylpiperazin-1-yl)phenyl]amino]thieno[3,2-d]pyrimidin-6-yl]propan-2-ol;

or a pharmaceutically acceptable salt thereof.

13. A process for preparing a compound according to Claim 1, wherein a thienopyrimidine of formula (II):



wherein

R7 is an aryl or heteroaryl group, this group being optionally substituted with one or several substituents selected, independently in each instance, from: cyano, halogen, (C₁-C₆)alkyl, OR'₄, CH₂OH, CH₂NH₂, S(O)_nR'₄, R8 and OR8;

wherein:

R'4 is a hydrogen atom or a (C₁-C₆)alkyl or aryl group, said alkyl and aryl groups being optionally substituted with a halogen atom or an NH₂ or OH group;

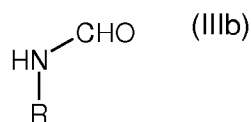
R8 is a halo(C₁-C₆)alkyl group;

n is 1 or 2;

R16 is a (C₁-C₆)alkoxy group;

is reacted

a) with a compound of formula (IIIb):



wherein

R is a phenyl or heteroaryl group substituted with R1, R'1, R2 and R3;

R1 is a hydrogen atom or is selected from the following groups: (C₁-C₆)alkyl, (C₁-C₆)alkoxy, (C₃-C₇)cycloalkyl and aryl, these groups being optionally substituted with one or several substituents selected, independently in each instance, from: amino, hydroxyl, thiol, halogen, (C₁-C₆)alkyl, (C₁-C₆)alkoxy, (C₁-C₆)alkylthio, (C₁-C₆)alkylamino, aryloxy, aryl(C₁-C₆)alkoxy, cyano, halo(C₁-C₆)alkyl, carboxyl and carboxy(C₁-C₆)alkyl;

R'1 is a hydrogen atom or a (C₁-C₆)alkoxy group;

R2 is selected from:

- a hydrogen atom, a halogen atom or a (C₁-C₆)alkyl, (C₃-C₇)cycloalkyl or (C₁-C₆)alkoxy group;

- a heterocycloalkyl, heterocycloalkyl-CH₂- or heteroaryl group;

these heterocycloalkyl, heterocycloalkyl-CH₂- and heteroaryl groups being optionally substituted with one or several substituents selected, independently in each instance, from: (C₁-C₆)alkyl, (C₃-C₇)cycloalkyl, (C₁-C₆)alkoxy, heterocycloalkyl, carboxy(C₁-C₆)alkyl, NR₄R₅ and OR₄;

said (C₁-C₆)alkyl group being optionally substituted with a halogen atom or a (C₁-C₆)alkoxy, heterocycloalkyl, NH₂ or OH group; and

- an NR_aR_b group, where R_a and R_b are, independently of one another:

. a hydrogen atom;

. a heterocycloalkyl group, said heterocycloalkyl group being optionally substituted with a (C₁-C₆)alkyl group; or

. a (C₁-C₆)alkyl group, said (C₁-C₆)alkyl group being optionally substituted with an NR₄R₅ group;

wherein:

R₄ and R₅ each is, independently of one another, a hydrogen atom, a (C₁-C₆)alkyl group or a heterocycloalkyl group;

or else R₄ and R₅ together form, with the nitrogen atom which bears them, a 4- to 7-membered ring;

R₃ is a hydrogen atom, a halogen atom or a (C₁-C₆)alkyl group;

wherein when R is a phenyl group, two adjacent substituents on the phenyl group may together form a heterocycloalkyl ring fused with the phenyl bearing them, this heterocycloalkyl being optionally substituted with one or several substituents selected, independently in each instance, from: an oxo group and a (C₁-C₆)alkyl group;

b) then step a) is followed:

- either by a step of treating the mixture obtained with an aqueous ammonia solution so as to obtain the compounds of formula (I) wherein R₆ is -CONH₂;

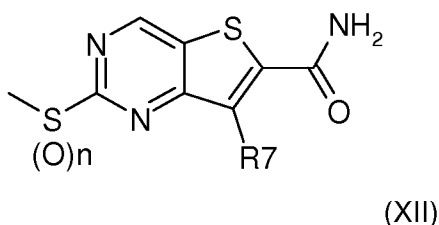
- or by a step of reducing the mixture obtained with a reducing agent in a solvent, which makes it possible to obtain the compounds of formula (I) in which R₆ is a -C(R_α)(R_β)(OH) group wherein R_α and R_β are hydrogen atoms;

- or by a step of treating the mixture obtained with an excess of an organometallic derivative (R_αMgX or R_βLi for example) in a solvent, which makes it possible to obtain the compounds of formula (I) wherein R₆ is a -C(R_α)(R_β)(OH) group where R_α and R_β are identical and are a (C₁-C₆)alkyl group.

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14. A process for preparing a compound according to Claim 1 and wherein R6 is -CONH₂,

wherein a compound of formula (XII):



in which

10 R7 is an aryl or heteroaryl group, this group being optionally substituted with at least one substituent selected from: cyano, halogen, (C₁-C₆)alkyl, OR'4, CH₂OH, CH₂NH₂, S(O)_nR'4, R8 and OR8;

wherein:

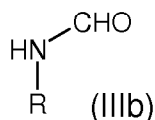
R'4 is a hydrogen atom or a (C₁-C₆)alkyl or aryl group, said alkyl and aryl groups being optionally substituted with a halogen atom or an NH₂ or OH group;

15 R8 being a halo(C₁-C₆)alkyl group;

n is 1 or 2;

is reacted

20 with a compound of formula (IIIb)



wherein

25 R is a phenyl or heteroaryl group substituted with R1, R'1, R2 and R3;

30 R1 is a hydrogen atom or is selected from the following groups: (C₁-C₆)alkyl, (C₁-C₆)alkoxy, (C₃-C₇)cycloalkyl and aryl, these groups being optionally substituted with one or several substituents selected, independently in each instance, from: amino, hydroxyl, thiol, halogen, (C₁-C₆)alkyl, (C₁-C₆)alkoxy, (C₁-C₆)alkylthio, (C₁-

C₆)alkylamino, aryloxy, aryl(C₁-C₆)alkoxy, cyano, halo(C₁-C₆)alkyl, carboxyl and carboxy(C₁-C₆)alkyl;

R'1 is a hydrogen atom or a (C₁-C₆)alkoxy group;

R2 is selected from:

- a hydrogen atom, a halogen atom or a (C₁-C₆)alkyl, (C₃-C₇)cycloalkyl or (C₁-C₆)alkoxy group;

- a heterocycloalkyl, heterocycloalkyl-CH₂- or heteroaryl group;

these heterocycloalkyl, heterocycloalkyl-CH₂- and heteroaryl groups being optionally substituted with one or several substituents selected, independently in each instance, from: (C₁-C₆)alkyl, (C₃-C₇)cycloalkyl, (C₁-C₆)alkoxy, heterocycloalkyl, carboxy(C₁-C₆)alkyl, NR₄R₅ and OR₄;

said alkyl group being optionally substituted with a halogen atom or a (C₁-C₆)alkoxy, heterocycloalkyl, NH₂ or OH group;

wherein:

R₄ and R₅ each is, independently of one another, a hydrogen atom, a (C₁-C₆)alkyl group or a heterocycloalkyl group;

or else R₄ and R₅ together form, with the nitrogen atom which bears them, a 4- to 7-membered ring; and

- an NR_aR_b group, where R_a and R_b are, independently of one another:

- . a hydrogen atom;

- . a heterocycloalkyl group, said heterocycloalkyl group being optionally substituted with a (C₁-C₆)alkyl group; or

- . a (C₁-C₆)alkyl group, said alkyl group being optionally substituted with an NR₄R₅ group;

wherein:

R₄ and R₅ each is, independently of one another, a hydrogen atom, a (C₁-C₆)alkyl group or a heterocycloalkyl group;

or else R₄ and R₅ together form, with the nitrogen atom which bears them, a 4- to 7-membered ring; and

R₃ is a hydrogen atom, a halogen atom or a (C₁-C₆)alkyl group;

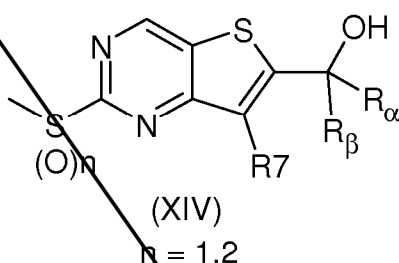
wherein when R is a phenyl group, two adjacent substituents on the phenyl group may together form a heterocycloalkyl ring fused with the phenyl bearing them, this

heterocycloalkyl being optionally substituted with one or several substituents selected, independently in each instance, from: an oxo group and a (C₁-C₆)alkyl group;

in the presence of an organic or inorganic base in a polar aprotic solvent.

15. A process for preparing a compound according to Claim 1 and in which R₆ is a -C(R_α)(R_β)(OH) group, wherein R_α and R_β are, independently of one another, a hydrogen atom or a (C₁-C₆)alkyl group, or together form, with the carbon atom which bears them, a 3- to 5-membered carbocycle,

wherein a compound of formula (XIV):



wherein

R_α and R_β are, independently of one another, a hydrogen atom or a (C₁-C₆)alkyl group, or together form, with the carbon atom which bears them, a 3- to 5-membered carbocycle;

R₇ is an aryl or heteroaryl group, this group being optionally substituted with one or several substituents selected, independently in each instance, from: cyano, halogen, (C₁-C₆)alkyl, OR'₄, CH₂OH, CH₂NH₂, S(O)_nR'₄, R₈ and OR₈;

wherein:

R'₄ is a hydrogen atom or a (C₁-C₆)alkyl or aryl group, said alkyl and aryl groups being optionally substituted with at least one halogen atom or an NH₂ or OH group;

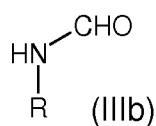
R₈ is a halo(C₁-C₆)alkyl group;

n is 1 or 2;

is reacted

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with a compound of formula (IIIb)



wherein

R is a phenyl or heteroaryl group substituted with R₁, R'₁, R₂ and R₃;

R₁ is a hydrogen atom or is selected from the following groups: (C₁-C₆)alkyl, (C₁-C₆)alkoxy, (C₃-C₇)cycloalkyl and aryl, these groups being optionally substituted with one or several substituents selected, independently in each instance, from: amino, hydroxyl, thiol, halogen, (C₁-C₆)alkyl, (C₁-C₆)alkoxy, (C₁-C₆)alkylthio, (C₁-C₆)alkylamino, aryloxy, aryl(C₁-C₆)alkoxy, cyano, halo(C₁-C₆)alkyl, carboxyl and carboxy(C₁-C₆)alkyl;

R'₁ is a hydrogen atom or a (C₁-C₆)alkoxy group;

R₂ is selected from:

- a hydrogen atom, a halogen atom or a (C₁-C₆)alkyl, (C₃-C₇)cycloalkyl or (C₁-C₆)alkoxy group;

- a heterocycloalkyl, heterocycloalkyl-CH₂- or heteroaryl group;

these heterocycloalkyl, heterocycloalkyl-CH₂- and heteroaryl groups being optionally substituted with one or several substituents selected, independently in each instance, from: (C₁-C₆)alkyl, (C₃-C₇)cycloalkyl, (C₁-C₆)alkoxy, heterocycloalkyl, carboxy(C₁-C₆)alkyl, NR₄R₅ and OR₄;

said alkyl group being optionally substituted with a halogen atom or a (C₁-C₆)alkoxy, heterocycloalkyl, NH₂ or OH group; and

wherein:

R₄ and R₅ each is, independently of one another, a hydrogen atom, a (C₁-C₆)alkyl group or a heterocycloalkyl group;

or else R₄ and R₅ together form, with the nitrogen atom which bears them, a 4- to 7-membered ring; and

- an NR_aR_b group, where R_a and R_b are, independently of one another:

- . a hydrogen atom;

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. a heterocycloalkyl group, said heterocycloalkyl group being optionally substituted with a (C₁-C₆)alkyl group; or

. a (C₁-C₆)alkyl group, said alkyl group being optionally substituted with an NR₄R₅ group;

wherein:

R₄ and R₅ each is, independently of one another, a hydrogen atom, a (C₁-C₆)alkyl group or a heterocycloalkyl group;

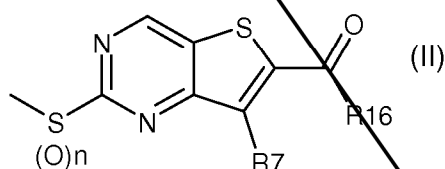
or else R₄ and R₅ together form, with the nitrogen atom which bears them, a 4- to 7 membered ring; and

R₃ is a hydrogen atom, a halogen atom or a (C₁-C₆)alkyl group;

wherein when R is a phenyl group, two adjacent substituents on the phenyl group may together form a heterocycloalkyl ring fused with the phenyl bearing them, this heterocycloalkyl being optionally substituted with one or several substituents selected, independently in each instance, from: an oxo group and a (C₁-C₆)alkyl group;

in the presence of an organic or inorganic base in a polar aprotic solvent.

16. A compound of formula (II):



wherein:

R₇ is an aryl group or heteroaryl group, this group being optionally substituted with one or several substituents selected, independently in each instance, from: cyano, halogen, (C₁-C₆)alkyl, OR'₄, CH₂OH, CH₂NH₂, S(O)_nR'₄, R₈ and OR₈;

wherein:

R'₄ is a hydrogen atom or a (C₁-C₆)alkyl or aryl group, said alkyl and aryl groups being optionally substituted with a halogen atom or an NH₂ or OH group;

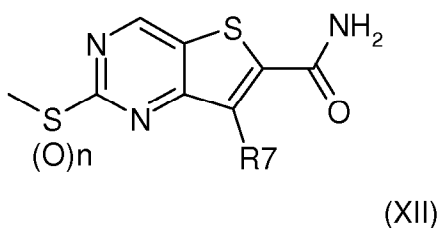
R₈ is a halo(C₁-C₆)alkyl group;

n is 1 or 2;

R16 is a (C₁-C₆)alkoxy group;

or a pharmaceutically acceptable salt thereof.

17. A compound of formula (XII):



wherein:

R7 is an aryl or heteroaryl group, this group being optionally substituted with one or several substituents selected, independently in each instance, from: cyano, halogen, (C₁-C₆)alkyl, OR'₄, CH₂OH, CH₂NH₂, S(O)_nR'₄, R8 and OR8;

wherein:

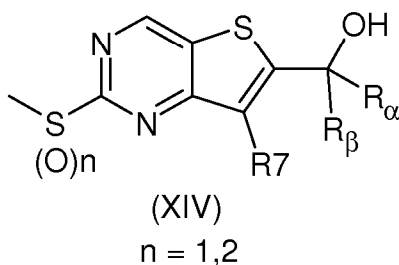
R'₄ is a hydrogen atom or a (C₁-C₆)alkyl or aryl group, said alkyl and aryl groups being optionally substituted with a halogen atom or an NH₂ or OH group;

R8 is a halo(C₁-C₆)alkyl group;

n is equal to 1 or to 2;

or a pharmaceutically acceptable salt thereof.

18. A compound of formula (XIV):



wherein:

R_α and R_β are, independently of one another, a hydrogen atom or a (C₁-C₆)alkyl group or together form, with the carbon atom which bears them, a 3- to 5-membered carbocycle;

R₇ is an aryl or heteroaryl group, this group being optionally substituted with one or several substituents selected, independently in each instance, from: cyano, halogen, (C₁-C₆)alkyl, OR'₄, CH₂OH, CH₂NH₂, S(O)_nR'₄, R₈ and OR₈;

wherein:

R'₄ is a hydrogen atom or a (C₁-C₆)alkyl or aryl group, said alkyl and aryl groups being optionally substituted with a halogen atom or an NH₂ or OH group;

R₈ is a halo(C₁-C₆)alkyl group;

n is 1 or 2;

or a pharmaceutically acceptable salt thereof.

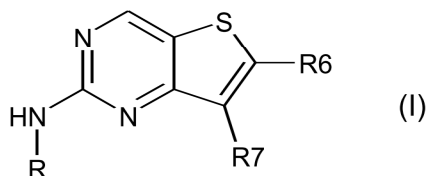
19. A medicament comprising a compound according to any one of Claims 1 to 12, or a pharmaceutically acceptable salt thereof.

20. A pharmaceutical composition, comprising a compound according to any one of Claims 1 to 12, or a pharmaceutically acceptable salt thereof, and also at least one pharmaceutically acceptable excipient.

21. A compound according to any one of Claims 1 to 12, for use in treating cancer.

CLAIMS

1. A compound of formula (I):



wherein:

R6 is -CONH₂ or a -C(R_α)(R_β)(OH) group in which R_α and R_β are, independently of one another, a hydrogen atom or a (C₁-C₆) alkyl group or together form, with the carbon atom which bears them, a 3- to 5-membered carbocycle;

R is a phenyl or heteroaryl group substituted with R1, R'1, R2 and R3;

R1 is a hydrogen atom or is selected from the following groups: (C₁-C₆)alkyl, (C₁-C₆)alkoxy, (C₃-C₇)cycloalkyl and aryl, these groups being optionally substituted with one or several substituents selected, independently in each instance, from: amino, hydroxyl, thiol, halogen, (C₁-C₆)alkyl, (C₁-C₆)alkoxy, (C₁-C₆)alkylthio, (C₁-C₆)alkylamino, aryloxy, aryl(C₁-C₆)alkoxy, cyano, halo(C₁-C₆)alkyl, carboxyl and carboxy(C₁-C₆)alkyl;

R'1 is a hydrogen atom or a (C₁-C₆)alkoxy group;

R2 is selected from:

- a hydrogen atom, a halogen atom, or a (C₁-C₆)alkyl, (C₃-C₇)cycloalkyl or (C₁-C₆)alkoxy group;

- a heterocycloalkyl, heterocycloalkyl-CH₂- or heteroaryl group;

wherein the heteroaryl group is a 5- to 10-membered aromatic monocyclic or bicyclic group containing from 1 to 4 heteroatoms selected from O, S or N, and the heterocycloalkyl group is a 4- to 10-membered, saturated or partially unsaturated, monocyclic or bicyclic group comprising from one to three heteroatoms selected from O, S or N,

wherein each said heterocycloalkyl, heterocycloalkyl-CH₂- and heteroaryl group is optionally substituted with one or several substituents selected, independently in each instance, from: (C₁-C₆)alkyl, (C₃-C₇)cycloalkyl, (C₁-C₆)alkoxy, heterocycloalkyl, carboxy(C₁-C₆)alkyl, NR₄R₅ and OR₄;

said (C₁-C₆)alkyl group being optionally substituted with a halogen atom or a (C₁-C₆)alkoxy, heterocycloalkyl, NH₂ or OH group; and

R₄ and R₅ being each, independently of one another, a hydrogen atom, a (C₁-C₆)alkyl group or a heterocycloalkyl group;

or else R₄ and R₅ together form, with the nitrogen atom which bears them, a 4- to 7-membered ring;

- an NR_aR_b group, where R_a and R_b are, independently of one another:

. a hydrogen atom;

. a heterocycloalkyl group, said heterocycloalkyl group being optionally substituted with a (C₁-C₆)alkyl group; or

. a (C₁-C₆)alkyl group, said alkyl group being optionally substituted with an NR₄R₅ group;

R₄ and R₅ being each, independently of one another, a hydrogen atom, a (C₁-C₆)alkyl group or a heterocycloalkyl group;

or else R₄ and R₅ together form, with the nitrogen atom which bears them, a 4- to 7-membered ring;

R₃ is a hydrogen atom, a halogen atom or a (C₁-C₆)alkyl group;

wherein when R is a phenyl group, two adjacent substituents on the phenyl group may together form a heterocycloalkyl ring fused with the phenyl bearing them, this heterocycloalkyl being optionally substituted with one or several substituents selected, independently in each instance, from: an oxo group and a (C₁-C₆)alkyl group;

R₇ is an aryl group or heteroaryl group, this group being optionally substituted with one or several substituents selected, independently in each instance, from: cyano, halogen, (C₁-C₆)alkyl, OR'₄, CH₂OH, CH₂NH₂, S(O)_nR'₄, R₈ and OR₈;

wherein:

R'₄ is a hydrogen atom or a (C₁-C₆)alkyl or aryl group, said alkyl and aryl groups being optionally substituted with a halogen atom or an NH₂ or OH group;

n is 1 or 2; and

R8 is a halo(C₁-C₆)alkyl group;

wherein each of the nitrogen atom(s) of the compounds of formula (I) may be, independently of one another, optionally in oxidized form (N-oxide);

or a pharmaceutically acceptable salt thereof.

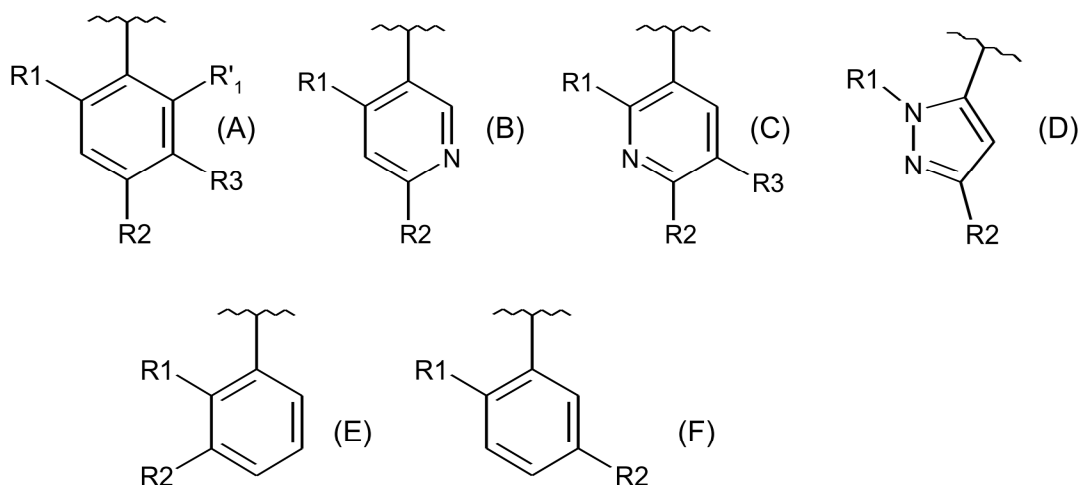
2. A compound according to Claim 1, wherein:

R6 is -CONH₂ or a -C(R_α)(R_β)(OH) group wherein R_α and R_β are, independently of one another, a hydrogen atom or a (C₁-C₆)alkyl group; or a pharmaceutically acceptable salt thereof.

3. A compound according to Claim 1 or 2, wherein:

R is a phenyl, pyridinyl or pyrazolyl group substituted with R1, R'1, R2 and R3; R1, R'1, R2 and R3 being as defined in formula (I) according to Claim 1; or a pharmaceutically acceptable salt thereof.

4. A compound according to any one of Claims 1 to 3, wherein R is selected from the following groups:



R1, R'1, R2 and R3 being as defined in formula (I) according to Claim 1; or a pharmaceutically acceptable salt thereof.

5. A compound according to any one of Claims 1 to 4, wherein R1 is a hydrogen atom or is selected from the following groups: (C₁-C₆)alkyl, (C₁-C₆)alkoxy, (C₃-C₇)cycloalkyl and aryl; or a pharmaceutically acceptable salt thereof.

6. A compound of formula (I) according to any one of Claims 1 to 5, wherein R¹ is a hydrogen atom or an isopropoxy group; or a pharmaceutically acceptable salt thereof.

7. A compound according to any one of Claims 1 to 6, wherein:

R₂ is selected from:

- a hydrogen or chlorine atom or a methyl, cyclopropyl or methoxy group;
- a pyrrolidinyl, piperidinyl, tetrahydropyridinyl, piperazinyl, tetrahydropyranyl, 1,4-diazepan-1-yl, diazabicycloheptanyl, (8aR)-hexahydropyrrolo[1,2-a]pyrazin-2(1H)-yl, 1,7-diazaspiro[4.4]non-7-yl, octahydroindolizinyl, dihydroimidazopyrazinyl, piperazinyl-CH₂, pyrazolyl, imidazolyl, triazolyl or pyridinyl group; these groups being optionally substituted with one or more substituents selected, independently in each instance, from: (C₁-C₆)alkyl, (C₃-C₇)cycloalkyl, (C₁-C₆)alkoxy, heterocycloalkyl, carboxy(C₁-C₆)alkyl, NR₄R₅ and OR₄;

said (C₁-C₆)alkyl group being optionally substituted with a halogen atom or a (C₁-C₆)alkoxy, heterocycloalkyl, NH₂ or OH group;

wherein:

R₄ and R₅ each is, independently of one another, a hydrogen atom, a (C₁-C₆)alkyl group or a heterocycloalkyl group;

or else R₄ and R₅ together form, with the nitrogen atom bearing them, a 4- to 7-membered ring; and

- an NR_aR_b group, where R_a and R_b are, independently of one another:

- . a hydrogen atom;
- . a piperidinyl group or tetrahydropyranyl group, wherein each of said piperidinyl and tetrahydropyranyl groups is independently optionally substituted with a (C₁-C₆)alkyl group; or
- . a methyl or ethyl group, said alkyl group being optionally substituted with an NR₄R₅ group;

wherein:

R₄ and R₅ each is, independently of one another, a hydrogen atom, a (C₁-C₆)alkyl group or a heterocycloalkyl group;

or else R₄ and R₅ together form, with the nitrogen atom bearing them, a 4- to 7-membered ring; and

R3 is a hydrogen atom, a halogen atom or a (C₁-C₆)alkyl group;

wherein when R corresponds to formula (A), R2 and R3 can together form an azepinyl or oxazepinyl ring fused with the phenyl bearing them, this azepinyl or oxazepinyl being optionally substituted with one or more substituents selected, independently in each instance, from: an oxo group and a (C₁-C₆)alkyl group;

or a pharmaceutically acceptable salt thereof.

8. A compound according to any one of Claims 1 to 7, wherein:

R7 is a phenyl, pyridinyl, thienyl, furanyl, pyrazolyl or pyrrolyl group, this group being optionally substituted with one or more substituents selected, independently in each instance, from: cyano, halogen, (C₁-C₆)alkyl, OR'₄, CH₂OH, CH₂NH₂, S(O)_nR'₄, R8 and OR8;

wherein:

- R'₄ is a hydrogen atom or a (C₁-C₆)alkyl group or aryl group, said (C₁-C₆)alkyl and aryl groups being optionally substituted with a halogen atom or an NH₂ or OH group;
- n is 1 or 2;
- R8 is a halo(C₁-C₆)alkyl group;

or a pharmaceutically acceptable salt thereof.

9. A compound according to any one of Claims 1 to 8, wherein

R6 is -CONH₂ or a -C(R_α)(R_β)(OH) group wherein R_α and R_β are, independently of one another, a hydrogen atom or a (C₁-C₆)alkyl group;

R is a phenyl, pyridinyl or pyrazolyl group substituted with R1, R'₁, R2 and R3;

R1 is a hydrogen atom or is selected from the following groups: (C₁-C₆)alkyl, (C₁-C₆)alkoxy, (C₃-C₇)cycloalkyl and aryl;

R'₁ is a hydrogen atom or an isopropoxy group;

R2 is selected from:

- a hydrogen or chlorine atom or a methyl, cyclopropyl or methoxy group;
 - a pyrrolidinyl, piperidinyl, tetrahydropyridinyl, piperazinyl, tetrahydropyranyl, 1,4-diazepan-1-yl, diazabicycloheptanyl, (8aR)-hexahydropyrrolo[1,2-a]pyrazin-2(1H)-yl, 1,7-diazaspiro[4.4]non-7-yl, octahydroindolizinyl, dihydroimidazopyrazinyl, piperazinyl-CH₂, pyrazolyl, imidazolyl, triazolyl or pyridinyl group; these groups being optionally substituted with one or more substituents independently selected from: (C₁-C₆)alkyl, (C₃-C₇)cycloalkyl, (C₁-C₆)alkoxy, heterocycloalkyl, carboxy(C₁-C₆)alkyl, NR₄R₅ and OR₄;

said (C₁-C₆)alkyl group being optionally substituted with a halogen atom or a (C₁-C₆)alkoxy, heterocycloalkyl, NH₂ or OH group;

and wherein:

R₄ and R₅ each is, independently of one another, a hydrogen atom, a (C₁-C₆)alkyl group or a heterocycloalkyl group;

or else R₄ and R₅ together form, with the nitrogen atom which bears them, a 4- to 7-membered ring; and

- an NR_aR_b group, where R_a and R_b are, independently of one another:

. a hydrogen atom;

. a piperidinyl or tetrahydropyranyl group, said group being optionally substituted with a (C₁-C₆)alkyl group; or

. a methyl or ethyl group, said group being optionally substituted with an NR₄R₅ group;

wherein:

R₄ and R₅ each is, independently of one another, a hydrogen atom, a (C₁-C₆)alkyl group or a heterocycloalkyl group;

or else R₄ and R₅ together form, with the nitrogen atom which bears them, a 4- to 7-membered ring; and

R₃ is a hydrogen atom, a halogen atom or a (C₁-C₆)alkyl group;

wherein when R corresponds to formula (A), R₂ and R₃ may together form an azepinyl or oxazepinyl ring fused with the phenyl bearing them, this azepinyl or oxazepinyl ring being optionally substituted with at least one substituent selected from: an oxo group and a (C₁-C₆)alkyl group;

R₇ is a phenyl, pyridinyl, thienyl, furanyl, pyrazolyl or pyrrolyl group, this group being optionally substituted with one or more substituents selected, independently in each

instance, from: cyano, halogen, (C₁-C₆)alkyl, OR'₄, CH₂OH, CH₂NH₂, S(O)_nR'₄, R₈ and OR₈;

wherein:

. R'₄ is a hydrogen atom or a (C₁-C₆)alkyl or aryl group, said alkyl and aryl groups being optionally substituted with a halogen atom or an NH₂ or OH group;

. n is 1 or 2; and

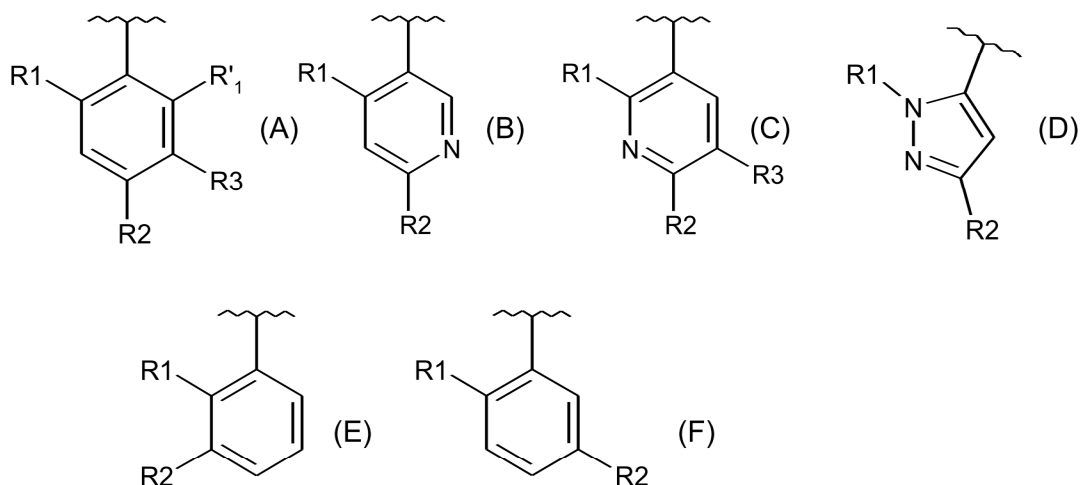
. R₈ is a halo(C₁-C₆)alkyl group;

or a pharmaceutically acceptable salt thereof.

10. A compound according to any one of Claims 1 to 9, wherein:

R₆ is -CONH₂ or a -C(R_α)(R_β)(OH) group wherein R_α and R_β are, independently of one another, a hydrogen atom or a (C₁-C₆)alkyl group;

R is selected from the following groups:



R₁ is a hydrogen atom or is selected from the following groups: (C₁-C₆)alkyl, (C₁-C₆)alkoxy, (C₃-C₇)cycloalkyl and aryl;

R'₁ is a hydrogen atom or an isopropoxy group;

R₂ is a pyrrolidinyl, piperidinyl, tetrahydropyridinyl, piperazinyl, tetrahydropyranyl, 1,4-diazepan-1-yl, diazabicycloheptanyl, (8aR)-hexahydropyrrolo[1,2-a]pyrazin-2(1H)-yl, 1,7-diazaspiro[4.4]non-7-yl, octahydroindolizinyl, dihydroimidazopyrazinyl, piperazinyl-CH₂, pyrazolyl, imidazolyl, triazolyl or pyridinyl group; these groups being

optionally substituted with one or more substituents selected, independently in each instance, from: (C₁-C₆)alkyl, (C₃-C₇)cycloalkyl, (C₁-C₆)alkoxy, heterocycloalkyl, carboxy(C₁-C₆)alkyl, NR₄R₅ and OH;

said (C₁-C₆)alkyl group being optionally substituted with a (C₁-C₆)alkoxy group or OH;

wherein:

R₄ and R₅ each is, independently of one another, a hydrogen atom, a (C₁-C₆)alkyl group or a heterocycloalkyl group;

or else R₄ and R₅ together form, with the nitrogen atom which bears them, a 4- to 7-membered ring;

R₃ is a hydrogen atom, a halogen atom or a (C₁-C₆)alkyl group;

R₇ is a phenyl, pyridinyl, thienyl, furanyl, pyrazolyl or pyrrolyl group, this group being optionally substituted with one or more substituents selected, independently in each instance, from: cyano, halogen, (C₁-C₆)alkyl, OR'₄, CH₂OH, CH₂NH₂, S(O)_nR'₄, R₈ and OR₈;

wherein:

R'₄ is a hydrogen atom or a (C₁-C₆)alkyl or aryl group, said alkyl and aryl groups being optionally substituted with a halogen atom or an NH₂ or OH group;

n is 1 or 2; and

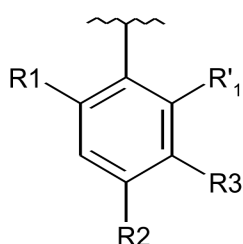
R₈ is a halo(C₁-C₆)alkyl group;

or a pharmaceutically acceptable salt thereof.

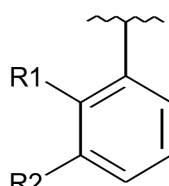
11. A compound according to any one of Claims 1 to 10, wherein:

R₆ is -CONH₂ or a -C(R_α)(R_β)(OH) group wherein R_α and R_β are, independently of one another, a hydrogen atom or a (C₁-C₆)alkyl group;

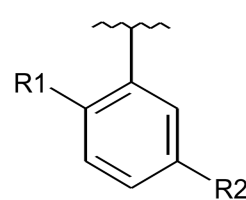
R is an (A), (E) or (F) group



(A)



(E)



(F)

R1 is an isopropoxy group;

R'1 is a hydrogen atom;

5 R2 is a piperidinyl or piperazinyl group, these groups being optionally substituted with one or more substituents selected, independently in each instance, from: a methyl, ethyl, isopropyl, cyclopropyl, OH, oxetanyl, pyrrolidinyl, C(O)O(CH₃)₃, NR₄R₅ and OR₄ group;

10 said methyl, ethyl and isopropyl groups being optionally substituted with a (C₁-C₆)alkoxy group, such as methoxy, or with an OH;

wherein R₄ and R₅ each is, independently of one another, a hydrogen atom, a (C₁-C₆)alkyl group or a heterocycloalkyl group;

R3 is a hydrogen or fluorine atom or a methyl;

15 R7 is a phenyl, pyridinyl, thienyl, furanyl, pyrazolyl or pyrrolyl group, this group being optionally substituted with one or more substituents selected, independently in each instance, from: cyano, halogen, (C₁-C₆)alkyl, OR'₄, CH₂OH, CH₂NH₂, S(O)_nR'₄ and OR₈;

20 wherein:

R'₄ is a (C₁-C₆)alkyl group;

n is equal to 1; and

R₈ is a halo(C₁-C₆)alkyl group;

25 or a pharmaceutically acceptable salt thereof.

12. A compound according to any one of Claims 1 to 11, wherein it is selected from the following compounds:

2-({2-methoxy-4-[4-(pyrrolidin-1-yl)piperidin-1-yl]phenyl}amino)-7-phenylthieno-
30 [3,2-d]pyrimidine-6-carboxamide;

2-({2-methyl-4-[4-(pyrrolidin-1-yl)piperidin-1-yl]phenyl}amino)-7-phenylthieno-
[3,2-d]pyrimidine-6-carboxamide;

7-(3-chlorophenyl)-2-({2-methoxy-4-[4-(pyrrolidin-1-yl)piperidin-1-yl]phenyl}-
amino)thieno[3,2-d]pyrimidine-6-carboxamide;

35 7-(4-chlorophenyl)-2-({2-methoxy-4-[4-(pyrrolidin-1-yl)piperidin-1-yl]phenyl}-
amino)thieno[3,2-d]pyrimidine-6-carboxamide;

2-({2-methoxy-4-[4-(pyrrolidin-1-yl)piperidin-1-yl]phenyl}amino)-7-(thiophen-3-yl)thieno[3,2-d]pyrimidine-6-carboxamide;

2-({2-methoxy-4-[4-(pyrrolidin-1-yl)piperidin-1-yl]phenyl}amino)-7-(thiophen-2-yl)thieno[3,2-d]pyrimidine-6-carboxamide;

5 2-({2-methoxy-4-[4-(propan-2-yl)piperazin-1-yl]phenyl}amino)-7-phenylthieno[3,2-d]pyrimidine-6-carboxamide;

2-({2-methoxy-4-[1-(propan-2-yl)piperidin-4-yl]phenyl}amino)-7-phenylthieno[3,2-d]pyrimidine-6-carboxamide;

10 7-(2-methoxyphenyl)-2-{{4-(4-methylpiperazin-1-yl)-2-(propan-2-yloxy)phenyl}amino}thieno[3,2-d]pyrimidine-6-carboxamide;

7-(4-fluoro-3-methoxyphenyl)-2-{{4-(4-methylpiperazin-1-yl)-2-(propan-2-yloxy)phenyl}amino}thieno[3,2-d]pyrimidine-6-carboxamide;

7-(4-methoxyphenyl)-2-{{4-(4-methylpiperazin-1-yl)-2-(propan-2-yloxy)phenyl}amino}thieno[3,2-d]pyrimidine-6-carboxamide;

15 7-(4-fluorophenyl)-2-{{4-(4-methylpiperazin-1-yl)-2-(propan-2-yloxy)phenyl}amino}thieno[3,2-d]pyrimidine-6-carboxamide;

2-{{2-methoxy-5-methyl-4-(1-methylpiperidin-4-yl)phenyl}amino}-7-phenylthieno[3,2-d]pyrimidine-6-carboxamide;

20 7-(4-fluoro-2-methoxyphenyl)-2-{{2-methoxy-4-(4-methylpiperazin-1-yl)phenyl}amino}thieno[3,2-d]pyrimidine-6-carboxamide;

2-{{2-methoxy-4-(4-methylpiperazin-1-yl)phenyl}amino}-7-(3-methoxyphenyl)thieno[3,2-d]pyrimidine-6-carboxamide;

7-(2-methoxyphenyl)-2-{{4-(1-methylpiperidin-4-yl)-2-(propan-2-yloxy)phenyl}amino}thieno[3,2-d]pyrimidine-6-carboxamide;

25 2-{{5-methyl-4-(1-methylpiperidin-4-yl)-2-(propan-2-yloxy)phenyl}amino}-7-phenylthieno[3,2-d]pyrimidine-6-carboxamide;

2-{{2-methoxy-5-methyl-4-(1-methylpiperidin-3-yl)phenyl}amino}-7-phenylthieno[3,2-d]pyrimidine-6-carboxamide;

30 2-({2-methoxy-4-[1-(propan-2-yl)piperidin-4-yl]phenyl}amino)-7-phenylthieno[3,2-d]pyrimidine-6-carboxamide;

2-{{4-(1-methylpiperidin-4-yl)-2-(propan-2-yloxy)phenyl}amino}-7-(1-methyl-1H-pyrazol-5-yl)thieno[3,2-d]pyrimidine-6-carboxamide;

7-(2-ethoxyphenyl)-2-{{4-(1-methylpiperidin-4-yl)-2-(propan-2-yloxy)phenyl}amino}thieno[3,2-d]pyrimidine-6-carboxamide;

35 7-(3-methoxyphenyl)-2-{{4-(1-methylpiperidin-4-yl)-2-(propan-2-yloxy)phenyl}amino}thieno[3,2-d]pyrimidine-6-carboxamide;

2-[[5-methyl-4-(1-methylpiperidin-4-yl)-2-(propan-2-yloxy)phenyl]amino]-7-(pyridin-2-yl)thieno[3,2-d]pyrimidine-6-carboxamide;

2-[[4-(4-methyl-1,4-diazepan-1-yl)-2-(propan-2-yloxy)phenyl]amino]-7-phenylthieno[3,2-d]pyrimidine-6-carboxamide;

5 7-(2-fluoro-5-methoxyphenyl)-2-[[4-(1-methylpiperidin-4-yl)-2-(propan-2-yloxy)-phenyl]amino]thieno[3,2-d]pyrimidine-6-carboxamide;

7-(3-cyanophenyl)-2-[[4-(1-methylpiperidin-4-yl)-2-(propan-2-yloxy)phenyl]-amino]thieno[3,2-d]pyrimidine-6-carboxamide;

10 2-[[4-(1-methylpiperidin-4-yl)-2-(propan-2-yloxy)phenyl]amino]-7-[2-(trifluoromethoxy)phenyl]thieno[3,2-d]pyrimidine-6-carboxamide;

2-[[4-(1-methylpiperidin-4-yl)-2-(propan-2-yloxy)phenyl]amino]-7-phenylthieno[3,2-d]pyrimidine-6-carboxamide;

2-[[4-[(1S,4S)-5-methyl-2,5-diazabicyclo[2.2.1]hept-2-yl]-2-(propan-2-yloxy)-phenyl]amino]-7-phenylthieno[3,2-d]pyrimidine-6-carboxamide;

15 2-[[4-(1-methylpiperidin-4-yl)-2-(propan-2-yloxy)phenyl]amino]-7-(1-methyl-1,2,3,6-tetrahydropyridin-4-yl)thieno[3,2-d]pyrimidine-6-carboxamide;

7-(2-methoxyphenyl)-2-[[5-methyl-4-(1-methylpiperidin-4-yl)-2-(propan-2-yloxy)phenyl]amino]thieno[3,2-d]pyrimidine-6-carboxamide;

20 2-[[4-methoxy-2-(propan-2-yloxy)phenyl]amino]-7-phenylthieno[3,2-d]-pyrimidine-6-carboxamide;

2-[[4-(1-methylpiperidin-4-yl)-2-(propan-2-yloxy)phenyl]amino]-7-[3-(methylsulfinyl)phenyl]thieno[3,2-d]pyrimidine-6-carboxamide;

7-(2-methoxypyridin-3-yl)-2-[[4-(1-methylpiperidin-4-yl)-2-(propan-2-yloxy)-phenyl]amino]thieno[3,2-d]pyrimidine-6-carboxamide;

25 7-(2-cyanophenyl)-2-[[4-(1-methylpiperidin-4-yl)-2-(propan-2-yloxy)phenyl]-amino]thieno[3,2-d]pyrimidine-6-carboxamide;

2-[[4-(1H-imidazol-1-yl)-2-(propan-2-yloxy)phenyl]amino]-7-phenylthieno[3,2-d]pyrimidine-6-carboxamide;

30 2-[[4-{methyl[2-(pyrrolidin-1-yl)ethyl]amino}-2-(propan-2-yloxy)phenyl]amino]-7-phenylthieno[3,2-d]pyrimidine-6-carboxamide;

7-(2-methoxyphenyl)-2-[[6-(4-methylpiperazin-1-yl)-4-(propan-2-yloxy)pyridin-3-yl]amino]thieno[3,2-d]pyrimidine-6-carboxamide;

7-(2-methoxyphenyl)-2-[[6-(1-methylpiperidin-4-yl)-4-(propan-2-yloxy)pyridin-3-yl]amino]thieno[3,2-d]pyrimidine-6-carboxamide;

35 7-(5-fluoro-2-methoxyphenyl)-2-[[4-(1-methylpiperidin-4-yl)-2-(propan-2-yloxy)-phenyl]amino]thieno[3,2-d]pyrimidine-6-carboxamide;

- 7-(3-fluoro-2-methoxyphenyl)-2-[[4-(1-methylpiperidin-4-yl)-2-(propan-2-yloxy)-phenyl]amino]thieno[3,2-d]pyrimidine-6-carboxamide;
- 2-[[4-(1-methylpiperidin-4-yl)-2-(propan-2-yloxy)phenyl]amino]-7-[2-(methylsulfinyl)phenyl]thieno[3,2-d]pyrimidine-6-carboxamide;
- 5 2-[[4-[3-(dimethylamino)pyrrolidin-1-yl]-2-(propan-2-yloxy)phenyl]amino]-7-(2-methoxyphenyl)thieno[3,2-d]pyrimidine-6-carboxamide;
- 7-(2-methoxyphenyl)-2-[[4-{methyl[2-(pyrrolidin-1-yl)ethyl]amino}-2-(propan-2-yloxy)phenyl]amino]thieno[3,2-d]pyrimidine-6-carboxamide;
- 7-(2-fluoro-3-methoxyphenyl)-2-[[4-(1-methylpiperidin-4-yl)-2-(propan-2-yloxy)-phenyl]amino]thieno[3,2-d]pyrimidine-6-carboxamide;
- 10 2-[[4-(1-ethylpiperidin-3-yl)-2-(propan-2-yloxy)phenyl]amino]-7-(2-methoxyphenyl)thieno[3,2-d]pyrimidine-6-carboxamide;
- 7-(2-fluorophenyl)-2-[[4-(1-methylpiperidin-4-yl)-2-(propan-2-yloxy)phenyl]-amino]thieno[3,2-d]pyrimidine-6-carboxamide;
- 15 2-[[4-(1-methylpiperidin-4-yl)-2-(propan-2-yloxy)phenyl]amino]-7-(1H-pyrrol-2-yl)thieno[3,2-d]pyrimidine-6-carboxamide;
- 7-[2-fluoro-5-(hydroxymethyl)phenyl]-2-[[4-(1-methylpiperidin-4-yl)-2-(propan-2-yloxy)phenyl]amino]thieno[3,2-d]pyrimidine-6-carboxamide;
- 2-[[4-(5-methoxy-1-methyl-1,2,3,6-tetrahydropyridin-4-yl)-2-(propan-2-yloxy)-phenyl]amino]-7-(2-methoxyphenyl)thieno[3,2-d]pyrimidine-6-carboxamide;
- 20 7-(4-fluoro-2-methoxyphenyl)-2-[[4-(4-methylpiperazin-1-yl)-2-(propan-2-yloxy)-phenyl]amino]thieno[3,2-d]pyrimidine-6-carboxamide;
- 2-[[4-(1H-imidazol-1-yl)-2-(propan-2-yloxy)phenyl]amino]-7-(2-methoxyphenyl)-thieno[3,2-d]pyrimidine-6-carboxamide;
- 25 2-methylpropan-2-yl 4-[5-[[6-carbamoyl-7-(2-methoxyphenyl)thieno[3,2-d]pyrimidin-2-yl]amino]-1-(propan-2-yl)-1H-pyrazol-3-yl]piperidine-1-carboxylate;
- 7-(2-methoxyphenyl)-2-[[2-(propan-2-yloxy)-4-(2,2,6,6-tetramethylpiperidin-4-yl)phenyl]amino]thieno[3,2-d]pyrimidine-6-carboxamide;
- 30 2-[[4-(2,6-dimethylpiperidin-4-yl)-2-(propan-2-yloxy)phenyl]amino]-7-(2-methoxyphenyl)thieno[3,2-d]pyrimidine-6-carboxamide;
- 2-[[4-(2-ethylpiperidin-4-yl)-2-(propan-2-yloxy)phenyl]amino]-7-(2-methoxyphenyl)thieno[3,2-d]pyrimidine-6-carboxamide;
- 7-(2-methoxyphenyl)-2-[[4-(piperidin-4-yl)-2-(propan-2-yloxy)phenyl]amino]-thieno[3,2-d]pyrimidine-6-carboxamide;
- 35

7-(4-fluoro-2-methoxyphenyl)-2-{{4-(1-methylpiperidin-4-yl)-2-(propan-2-yloxy)-phenyl}amino}thieno[3,2-d]pyrimidine-6-carboxamide;

2-{{4-(3,5-dimethylpiperazin-1-yl)-2-(propan-2-yloxy)phenyl}amino}-7-(2-methoxyphenyl)thieno[3,2-d]pyrimidine-6-carboxamide;

5 7-(2-methoxyphenyl)-2-{{2-(propan-2-yloxy)-4-(3,4,5-trimethylpiperazin-1-yl)-phenyl}amino}thieno[3,2-d]pyrimidine-6-carboxamide;

2-{{4-[(8aR)-hexahydropyrrolo[1,2-a]pyrazin-2(1H)-yl]-2-(propan-2-yloxy)-phenyl}amino}-7-(2-methoxyphenyl)thieno[3,2-d]pyrimidine-6-carboxamide;

10 7-(2-methoxyphenyl)-2-{{3-(piperidin-4-yl)-1-(propan-2-yl)-1H-pyrazol-5-yl}amino}thieno[3,2-d]pyrimidine-6-carboxamide;

2-{{4-[(3R)-1-ethylpiperidin-3-yl]-2-(propan-2-yloxy)phenyl}amino}-7-(2-methoxyphenyl)thieno[3,2-d]pyrimidine-6-carboxamide;

2-{{4-[(3S)-1-ethylpiperidin-3-yl]-2-(propan-2-yloxy)phenyl}amino}-7-(2-methoxyphenyl)thieno[3,2-d]pyrimidine-6-carboxamide;

15 2-{{4-(1-methylpiperidin-4-yl)-2-(propan-2-yloxy)phenyl}amino}-7-(thiophen-3-yl)thieno[3,2-d]pyrimidine-6-carboxamide;

7-(5-fluoro-2-methoxypyridin-4-yl)-2-{{4-(1-methylpiperidin-4-yl)-2-(propan-2-yloxy)phenyl}amino}thieno[3,2-d]pyrimidine-6-carboxamide;

20 7-(2-methoxyphenyl)-2-{{2-(propan-2-yloxy)-4-[(2R,4S)-2-(propan-2-yl)-piperidin-4-yl]phenyl}amino}thieno[3,2-d]pyrimidine-6-carboxamide;

7-(2-methoxyphenyl)-2-{{2-(propan-2-yloxy)-4-[(2R,4R)-2-(propan-2-yl)-piperidin-4-yl]phenyl}amino}thieno[3,2-d]pyrimidine-6-carboxamide;

7-(2-chlorophenyl)-2-{{4-(1-methylpiperidin-4-yl)-2-(propan-2-yloxy)phenyl}amino}thieno[3,2-d]pyrimidine-6-carboxamide;

25 2-{{4-[(8aR)-hexahydropyrrolo[1,2-a]pyrazin-2(1H)-yl]-2-(propan-2-yloxy)-phenyl}amino}-7-(2-methoxypyridin-3-yl)thieno[3,2-d]pyrimidine-6-carboxamide;

7-(3-chlorophenyl)-2-{{4-(1-methylpiperidin-4-yl)-2-(propan-2-yloxy)phenyl}amino}thieno[3,2-d]pyrimidine-6-carboxamide;

30 7-(2-methylphenyl)-2-{{4-(1-methylpiperidin-4-yl)-2-(propan-2-yloxy)phenyl}amino}thieno[3,2-d]pyrimidine-6-carboxamide;

2-{{4-(1-methylpiperidin-4-yl)-2-(propan-2-yloxy)phenyl}amino}-7-(1-methyl-1H-pyrazol-4-yl)thieno[3,2-d]pyrimidine-6-carboxamide;

7-(2,5-dimethoxyphenyl)-2-{{4-(1-methylpiperidin-4-yl)-2-(propan-2-yloxy)-phenyl}amino}thieno[3,2-d]pyrimidine-6-carboxamide;

35 7-[2-(difluoromethoxy)phenyl]-2-{{4-(1-methylpiperidin-4-yl)-2-(propan-2-yloxy)-phenyl}amino}thieno[3,2-d]pyrimidine-6-carboxamide;

2-[[4-(1-methylpiperidin-4-yl)-2-(propan-2-yloxy)phenyl]amino}-7-(1H-pyrazol-4-yl)thieno[3,2-d]pyrimidine-6-carboxamide;

2-({4-[3-(2-hydroxyethyl)-4-methylpiperazin-1-yl]-2-(propan-2-yloxy)-phenyl}amino)-7-(2-methoxyphenyl)thieno[3,2-d]pyrimidine-6-carboxamide;

5 7-(2-methoxypyridin-3-yl)-2-[[5-methyl-4-(1-methylpiperidin-4-yl)-2-(propan-2-yloxy)phenyl]amino}thieno[3,2-d]pyrimidine-6-carboxamide;

7-(2-methoxypyridin-3-yl)-2-{{4-(4-methylpiperazin-1-yl)-2-(propan-2-yloxy)-phenyl}amino}thieno[3,2-d]pyrimidine-6-carboxamide;

10 2-({4-[1-(2-hydroxyethyl)piperidin-4-yl]-2-(propan-2-yloxy)phenyl}amino)-7-(2-methoxyphenyl)thieno[3,2-d]pyrimidine-6-carboxamide;

7-(2-methoxyphenyl)-2-{{4-(3-methoxypyridin-4-yl)-2-(propan-2-yloxy)phenyl}amino}thieno[3,2-d]pyrimidine-6-carboxamide;

7-(2-methoxyphenyl)-2-{{6-(4-methylpiperazin-1-yl)-2-(propan-2-yloxy)pyridin-3-yl}amino}thieno[3,2-d]pyrimidine-6-carboxamide;

15 7-(2-methoxyphenyl)-2-{{4-(1,2,2,6,6-pentamethylpiperidin-4-yl)-2-(propan-2-yloxy)phenyl}amino}thieno[3,2-d]pyrimidine-6-carboxamide;

2-({4-[(2S,4S)-2-ethyl-1-methylpiperidin-4-yl]-2-(propan-2-yloxy)phenyl}amino)-7-(2-methoxyphenyl)thieno[3,2-d]pyrimidine-6-carboxamide;

2-({4-[(2S,4R)-2-ethyl-1-methylpiperidin-4-yl]-2-(propan-2-yloxy)phenyl}amino)-7-(2-methoxyphenyl)thieno[3,2-d]pyrimidine-6-carboxamide;

20 7-(2-methoxypyridin-3-yl)-2-{{2-(propan-2-yloxy)-4-[1-(propan-2-yl)piperidin-4-yl]phenyl}amino}thieno[3,2-d]pyrimidine-6-carboxamide;

7-(5-fluoro-2-methoxypyridin-3-yl)-2-{{4-(1-methylpiperidin-4-yl)-2-(propan-2-yloxy)phenyl}amino}thieno[3,2-d]pyrimidine-6-carboxamide;

25 7-(5-fluoro-2-methoxypyridin-3-yl)-2-{{2-(propan-2-yloxy)-4-[1-(propan-2-yl)piperidin-4-yl]phenyl}amino}thieno[3,2-d]pyrimidine-6-carboxamide;

7-(5-fluoro-2-methoxypyridin-3-yl)-2-[[5-methyl-4-(1-methylpiperidin-4-yl)-2-(propan-2-yloxy)phenyl]amino}thieno[3,2-d]pyrimidine-6-carboxamide;

7-(6-methoxypyridin-2-yl)-2-{{4-(1-methylpiperidin-4-yl)-2-(propan-2-yloxy)-phenyl}amino}thieno[3,2-d]pyrimidine-6-carboxamide;

30 7-(2-chlorophenyl)-2-{{4-[1-(2-hydroxyethyl)piperidin-4-yl]-2-(propan-2-yloxy)-phenyl}amino}thieno[3,2-d]pyrimidine-6-carboxamide;

7-(2-methoxyphenyl)-2-{{6-(1-methylpiperidin-4-yl)-2-(propan-2-yloxy)pyridin-3-yl}amino}thieno[3,2-d]pyrimidine-6-carboxamide;

35 2-[[4-(1,7-diazaspiro[4.4]non-7-yl)-2-(propan-2-yloxy)phenyl]amino}-7-(2-methoxyphenyl)thieno[3,2-d]pyrimidine-6-carboxamide;

- 2-({4-[3-(diethylamino)pyrrolidin-1-yl]-2-(propan-2-yloxy)phenyl}amino)-7-(2-methoxypyridin-3-yl)thieno[3,2-d]pyrimidine-6-carboxamide;
- 2-({4-[3-(dimethylamino)pyrrolidin-1-yl]-2-(propan-2-yloxy)phenyl}amino)-7-(1-methyl-1H-pyrrol-2-yl)thieno[3,2-d]pyrimidine-6-carboxamide;
- 5 2-([4-(1-methylpiperidin-4-yl)-2-(propan-2-yloxy)phenyl]amino)-7-(1-methyl-1H-pyrrol-2-yl)thieno[3,2-d]pyrimidine-6-carboxamide;
- 2-([4-(1-methylpiperidin-4-yl)-2-(propan-2-yloxy)phenyl]amino)-7-(2-methylpyridin-3-yl)thieno[3,2-d]pyrimidine-6-carboxamide;
- 7-(furan-2-yl)-2-([4-(1-methylpiperidin-4-yl)-2-(propan-2-yloxy)phenyl]amino)thieno[3,2-d]pyrimidine-6-carboxamide;
- 10 7-[5-(aminomethyl)furan-2-yl]-2-([4-(1-methylpiperidin-4-yl)-2-(propan-2-yloxy)phenyl]amino)thieno[3,2-d]pyrimidine-6-carboxamide;
- 7-(2-methoxypyridin-3-yl)-2-([5-methyl-4-(4-methylpiperazin-1-yl)-2-(propan-2-yloxy)phenyl]amino)thieno[3,2-d]pyrimidine-6-carboxamide;
- 15 2-([4-(1-methylpiperidin-4-yl)-2-(propan-2-yloxy)phenyl]amino)-7-(1H-pyrrol-3-yl)thieno[3,2-d]pyrimidine-6-carboxamide;
- 2-({4-[3-(dimethylamino)pyrrolidin-1-yl]-2-(propan-2-yloxy)phenyl}amino)-7-(2-methoxypyridin-3-yl)thieno[3,2-d]pyrimidine-6-carboxamide;
- 7-(2-ethoxypyridin-3-yl)-2-({2-(propan-2-yloxy)-4-[1-(propan-2-yl)piperidin-4-yl]-phenyl}amino)thieno[3,2-d]pyrimidine-6-carboxamide;
- 20 7-(2-ethoxypyridin-3-yl)-2-([5-methyl-4-(1-methylpiperidin-4-yl)-2-(propan-2-yloxy)phenyl]amino)thieno[3,2-d]pyrimidine-6-carboxamide;
- 7-(2-methoxyphenyl)-2-([5-methyl-4-(4-methylpiperazin-1-yl)-2-(propan-2-yloxy)phenyl]amino)thieno[3,2-d]pyrimidine-6-carboxamide;
- 25 7-(2-ethoxypyridin-3-yl)-2-([4-(1-methylpiperidin-4-yl)-2-(propan-2-yloxy)phenyl]amino)thieno[3,2-d]pyrimidine-6-carboxamide;
- 7-(2-ethoxypyridin-3-yl)-2-([4-(4-methylpiperazin-1-yl)-2-(propan-2-yloxy)phenyl]amino)thieno[3,2-d]pyrimidine-6-carboxamide;
- 7-(2-methoxy-5-methylpyridin-3-yl)-2-([4-(4-methylpiperazin-1-yl)-2-(propan-2-yloxy)phenyl]amino)thieno[3,2-d]pyrimidine-6-carboxamide;
- 30 7-(2-methoxy-5-methylpyridin-3-yl)-2-([4-(1-methylpiperidin-4-yl)-2-(propan-2-yloxy)phenyl]amino)thieno[3,2-d]pyrimidine-6-carboxamide;
- 7-(5-fluoro-2-methoxypyridin-3-yl)-2-([4-(4-methylpiperazin-1-yl)-2-(propan-2-yloxy)phenyl]amino)thieno[3,2-d]pyrimidine-6-carboxamide;
- 35 7-(2-methoxy-5-methylpyridin-3-yl)-2-([5-methyl-4-(1-methylpiperidin-4-yl)-2-(propan-2-yloxy)phenyl]amino)thieno[3,2-d]pyrimidine-6-carboxamide;

2-([4-(1-methylpiperidin-4-yl)-2-(propan-2-yloxy)phenyl]amino)-7-(1-methyl-1H-pyrazol-3-yl)thieno[3,2-d]pyrimidine-6-carboxamide;

2-([4-[3-(2-methoxyethyl)-4-methylpiperazin-1-yl]-2-(propan-2-yloxy)-phenyl]amino)-7-(2-methoxyphenyl)thieno[3,2-d]pyrimidine-6-carboxamide;

7-(2-methoxyphenyl)-2-([4-((3R)-3-[methyl(oxetan-3-yl)amino]piperidin-1-yl)-2-(propan-2-yloxy)phenyl]amino)thieno[3,2-d]pyrimidine-6-carboxamide;

7-(2-methylfuran-3-yl)-2-([4-(1-methylpiperidin-4-yl)-2-(propan-2-yloxy)-phenyl]amino)thieno[3,2-d]pyrimidine-6-carboxamide;

7-(6-methoxypyridin-2-yl)-2-([5-methyl-4-(1-methylpiperidin-4-yl)-2-(propan-2-yloxy)phenyl]amino)thieno[3,2-d]pyrimidine-6-carboxamide;

2-([4-[3-(dimethylamino)pyrrolidin-1-yl]-5-methyl-2-(propan-2-yloxy)-phenyl]amino)-7-(2-methoxypyridin-3-yl)thieno[3,2-d]pyrimidine-6-carboxamide;

2-([4-[3-(dimethylamino)pyrrolidin-1-yl]-5-methyl-2-(propan-2-yloxy)-phenyl]amino)-7-(2-methoxyphenyl)thieno[3,2-d]pyrimidine-6-carboxamide;

2-([3-[1-(oxetan-3-yl)piperidin-4-yl]-1-(propan-2-yl)-1H-pyrazol-5-yl]amino)-7-[2-(trifluoromethoxy)phenyl]thieno[3,2-d]pyrimidine-6-carboxamide;

7-(2-methoxy-6-methylpyridin-3-yl)-2-([5-methyl-4-(1-methylpiperidin-4-yl)-2-(propan-2-yloxy)phenyl]amino)thieno[3,2-d]pyrimidine-6-carboxamide;

7-(2-methoxy-6-methylpyridin-3-yl)-2-([4-(4-methylpiperazin-1-yl)-2-(propan-2-yloxy)phenyl]amino)thieno[3,2-d]pyrimidine-6-carboxamide;

7-(2-methoxy-6-methylpyridin-3-yl)-2-([4-(1-methylpiperidin-4-yl)-2-(propan-2-yloxy)phenyl]amino)thieno[3,2-d]pyrimidine-6-carboxamide;

2-([3-(1-ethylpiperidin-4-yl)-1-(propan-2-yl)-1H-pyrazol-5-yl]amino)-7-[2-(trifluoromethoxy)phenyl]thieno[3,2-d]pyrimidine-6-carboxamide;

2-([4-[(3R,4S)-3-hydroxy-1-methylpiperidin-4-yl]-2-(propan-2-yloxy)-phenyl]amino)-7-(2-methoxyphenyl)thieno[3,2-d]pyrimidine-6-carboxamide;

7-(2-methoxypyridin-3-yl)-2-([4-[(8S,8aS)-octahydroindolizin-8-yl]-2-(propan-2-yloxy)phenyl]amino)thieno[3,2-d]pyrimidine-6-carboxamide;

7-(2-methoxypyridin-3-yl)-2-([4-[(8R,8aS)-octahydroindolizin-8-yl]-2-(propan-2-yloxy)phenyl]amino)thieno[3,2-d]pyrimidine-6-carboxamide

7-(2-methoxyphenyl)-2-([4-(1-methyl-1H-pyrazol-4-yl)-2-(propan-2-yloxy)-phenyl]amino)thieno[3,2-d]pyrimidine-6-carboxamide;

7-(2-methoxypyridin-3-yl)-2-[(1-methyl-2-oxo-2,3,4,5-tetrahydro-1H-1-benzazepin-8-yl)amino]thieno[3,2-d]pyrimidine-6-carboxamide;

7-(2-methoxypyridin-3-yl)-2-([4-(2-methyl-1H-imidazol-1-yl)-2-(propan-2-yloxy)-phenyl]amino)thieno[3,2-d]pyrimidine-6-carboxamide;

2-[[5-fluoro-4-(1-methylpiperidin-4-yl)-2-(propan-2-yloxy)phenyl]amino]-7-(2-methoxyphenyl)thieno[3,2-d]pyrimidine-6-carboxamide;

2-[[5-fluoro-4-(1-methylpiperidin-4-yl)-2-(propan-2-yloxy)phenyl]amino]-7-(2-methoxypyridin-3-yl)thieno[3,2-d]pyrimidine-6-carboxamide;

5 7-(2-methoxypyridin-3-yl)-2-[[5-methyl-4-(2-methyl-1H-imidazol-1-yl)-2-(propan-2-yloxy)phenyl]amino]thieno[3,2-d]pyrimidine-6-carboxamide;

7-(2-methoxyphenyl)-2-[[2-(propan-2-yloxy)-4-(1H-1,2,4-triazol-1-yl)phenyl]amino]thieno[3,2-d]pyrimidine-6-carboxamide;

10 7-(2-methoxyphenyl)-2-[(1-phenyl-1H-pyrazol-5-yl)amino]thieno[3,2-d]pyrimidine-6-carboxamide;

7-(2-methoxyphenyl)-2-[[4-(1-methyl-1H-pyrazol-3-yl)-2-(propan-2-yloxy)phenyl]amino]thieno[3,2-d]pyrimidine-6-carboxamide;

7-(2-methoxypyridin-3-yl)-2-[[3-methyl-1-(propan-2-yl)-1H-pyrazol-5-yl]amino]thieno[3,2-d]pyrimidine-6-carboxamide;

15 7-(2-fluorophenyl)-2-[[5-methyl-4-(1-methylpiperidin-4-yl)-2-(propan-2-yloxy)phenyl]amino]thieno[3,2-d]pyrimidine-6-carboxamide;

7-(2-methoxyphenyl)-2-[(1-methyl-2-oxo-2,3,4,5-tetrahydro-1H-1-benzazepin-8-yl)amino]thieno[3,2-d]pyrimidine-6-carboxamide;

20 7-(4-fluoro-2-methoxyphenyl)-2-[[3-(piperidin-3-yl)-1-(propan-2-yl)-1H-pyrazol-5-yl]amino]thieno[3,2-d]pyrimidine-6-carboxamide;

2-[[3-cyclopropyl-1-(propan-2-yl)-1H-pyrazol-5-yl]amino]-7-(2-methoxypyridin-3-yl)thieno[3,2-d]pyrimidine-6-carboxamide;

7-(4-fluoro-2-methoxyphenyl)-2-[[1-(propan-2-yl)-3-(pyridin-3-yl)-1H-pyrazol-5-yl]amino]thieno[3,2-d]pyrimidine-6-carboxamide;

25 7-(2-methoxypyridin-3-yl)-2-[(1-methyl-2-oxo-2,3,4,5-tetrahydro-1H-1-benzazepin-7-yl)amino]thieno[3,2-d]pyrimidine-6-carboxamide;

7-(4-fluoro-2-methoxyphenyl)-2-[[2-(propan-2-yloxy)-4-(1H-1,2,4-triazol-1-yl)phenyl]amino]thieno[3,2-d]pyrimidine-6-carboxamide;

30 2-[[4-(2,4-dimethyl-1H-imidazol-1-yl)-2-(propan-2-yloxy)phenyl]amino]-7-(2-methoxypyridin-3-yl)thieno[3,2-d]pyrimidine-6-carboxamide;

2-[[4-methoxy-2-(propan-2-yloxy)phenyl]amino]-7-(2-methoxypyridin-3-yl)thieno[3,2-d]pyrimidine-6-carboxamide;

2-[(3-cyclopropyl-1-phenyl-1H-pyrazol-5-yl)amino]-7-(2-methoxyphenyl)thieno[3,2-d]pyrimidine-6-carboxamide;

35 2-[[4-(5,6-dihydroimidazo[1,2-a]pyrazin-7(8H)-yl)-2-(propan-2-yloxy)phenyl]amino]-7-(2-methoxypyridin-3-yl)thieno[3,2-d]pyrimidine-6-carboxamide;

- 2-[[4-(1-cyclopropylpiperidin-4-yl)-2-(propan-2-yloxy)phenyl]amino]-7-(2-methoxyphenyl)thieno[3,2-d]pyrimidine-6-carboxamide;
- 2-[[4-(1-cyclopropylpiperidin-4-yl)-2-(propan-2-yloxy)phenyl]amino]-7-(5-fluoro-2-methoxyphenyl)thieno[3,2-d]pyrimidine-6-carboxamide;
- 5 2-[[4-(1-cyclopropylpiperidin-4-yl)-2-(propan-2-yloxy)phenyl]amino]-7-(2-methoxypyridin-3-yl)thieno[3,2-d]pyrimidine-6-carboxamide;
- 7-(2-methoxypyridin-3-yl)-2-[[4-(4-methyl-1H-imidazol-1-yl)-2-(propan-2-yloxy)-phenyl]amino]thieno[3,2-d]pyrimidine-6-carboxamide;
- 7-(4-fluoro-2-methoxyphenyl)-2-[(1-methyl-2-oxo-2,3,4,5-tetrahydro-1H-1-benzazepin-7-yl)amino]thieno[3,2-d]pyrimidine-6-carboxamide;
- 10 2-[[4-(4-methylpiperazin-1-yl)-2-(propan-2-yloxy)phenyl]amino]-7-(1-oxidopyridin-2-yl)thieno[3,2-d]pyrimidine-6-carboxamide;
- 2-[[4-(1-ethyl-1,7-diazaspiro[4.4]non-7-yl)-2-(propan-2-yloxy)phenyl]amino]-7-(2-methoxyphenyl)thieno[3,2-d]pyrimidine-6-carboxamide;
- 15 7-(2-ethoxypyridin-3-yl)-2-[[5-methyl-4-(4-methylpiperazin-1-yl)-2-(propan-2-yloxy)phenyl]amino]thieno[3,2-d]pyrimidine-6-carboxamide;
- 2-[[4-(3,5-dimethyl-1H-1,2,4-triazol-1-yl)-2-(propan-2-yloxy)phenyl]amino]-7-(2-methoxyphenyl)thieno[3,2-d]pyrimidine-6-carboxamide;
- 7-(5-fluoro-2-methoxypyridin-3-yl)-2-[[5-methyl-4-(4-methylpiperazin-1-yl)-2-(propan-2-yloxy)phenyl]amino]thieno[3,2-d]pyrimidine-6-carboxamide;
- 20 7-(2-methoxy-6-methylpyridin-3-yl)-2-[[4-(2-methyl-1H-imidazol-1-yl)-2-(propan-2-yloxy)phenyl]amino]thieno[3,2-d]pyrimidine-6-carboxamide;
- 7-(2-methoxyphenyl)-2-({4-[(4-methylpiperazin-1-yl)methyl]-2-(propan-2-yloxy)phenyl}amino)thieno[3,2-d]pyrimidine-6-carboxamide;
- 25 7-(2-methoxy-6-methylpyridin-3-yl)-2-[[5-methyl-4-(4-methylpiperazin-1-yl)-2-(propan-2-yloxy)phenyl]amino]thieno[3,2-d]pyrimidine-6-carboxamide;
- 7-(2-methoxyphenyl)-2-[[1-methyl-2-oxo-6-(propan-2-yloxy)-2,3,4,5-tetrahydro-1H-1-benzazepin-7-yl]amino]thieno[3,2-d]pyrimidine-6-carboxamide;
- 7-(2-methoxypyridin-3-yl)-2-[[1-methyl-2-oxo-6-(propan-2-yloxy)-2,3,4,5-tetrahydro-1H-1-benzazepin-7-yl]amino]thieno[3,2-d]pyrimidine-6-carboxamide;
- 30 7-(2-methoxyphenyl)-2-[[5-(4-methylpiperazin-1-yl)-2-(propan-2-yloxy)-phenyl]amino]thieno[3,2-d]pyrimidine-6-carboxamide;
- 7-(2-methoxyphenyl)-2-[[2-(propan-2-yloxy)-4-(tetrahydro-2H-pyran-4-ylamino)phenyl]amino]thieno[3,2-d]pyrimidine-6-carboxamide;
- 35 7-(3-methoxypyridin-2-yl)-2-[[5-methyl-4-(4-methylpiperazin-1-yl)-2-(propan-2-yloxy)phenyl]amino]thieno[3,2-d]pyrimidine-6-carboxamide;

- 2-[[4-(4-hydroxypiperidin-1-yl)-2-(propan-2-yloxy)phenyl]amino]-7-(2-methoxypyridin-3-yl)thieno[3,2-d]pyrimidine-6-carboxamide;
- 7-(2-methoxyphenyl)-2-({4-[(1-methylpiperidin-4-yl)amino]-2-(propan-2-yloxy)phenyl}amino)thieno[3,2-d]pyrimidine-6-carboxamide;
- 5 2-[[1-cyclobutyl-3-(1-ethylpiperidin-4-yl)-1H-pyrazol-5-yl]amino]-7-(4-fluoro-2-methoxyphenyl)thieno[3,2-d]pyrimidine-6-carboxamide;
- 7-(2-methoxypyridin-3-yl)-2-({4-[(4-methylpiperazin-1-yl)methyl]-2-(propan-2-yloxy)phenyl}amino)thieno[3,2-d]pyrimidine-6-carboxamide;
- 7-(2-methoxypyridin-3-yl)-2-{{4-[(1-methylpyrrolidin-3-yl)-2-(propan-2-yloxy)phenyl]amino}thieno[3,2-d]pyrimidine-6-carboxamide;
- 10 7-(2-methoxyphenyl)-2-{{3-(4-methylpiperazin-1-yl)-2-(propan-2-yloxy)phenyl}amino}thieno[3,2-d]pyrimidine-6-carboxamide;
- 7-(5-fluoro-2-methoxypyridin-3-yl)-2-{{1-(propan-2-yl)-3-(tetrahydro-2H-pyran-4-yl)-1H-pyrazol-5-yl}amino}thieno[3,2-d]pyrimidine-6-carboxamide;
- 15 7-(5-fluoro-2-methoxypyridin-3-yl)-2-{{3-methyl-1-(propan-2-yl)-1H-pyrazol-5-yl}amino}thieno[3,2-d]pyrimidine-6-carboxamide;
- 7-(2-methoxypyridin-3-yl)-2-{{5-methyl-2,3,4,5-tetrahydro-1,5-benzoxazepin-7-yl}amino}thieno[3,2-d]pyrimidine-6-carboxamide;
- 2-[[1-(propan-2-yl)-3-(tetrahydro-2H-pyran-4-yl)-1H-pyrazol-5-yl]amino]-7-[2-(trifluoromethoxy)phenyl]thieno[3,2-d]pyrimidine-6-carboxamide;
- 20 7-(2-methoxypyridin-3-yl)-2-{{3-(4-methylpiperazin-1-yl)-2-(propan-2-yloxy)phenyl}amino}thieno[3,2-d]pyrimidine-6-carboxamide;
- 7-(2-methoxypyridin-3-yl)-2-{{5-(4-methylpiperazin-1-yl)-2-(propan-2-yloxy)phenyl}amino}thieno[3,2-d]pyrimidine-6-carboxamide;
- 25 7-(2-methoxypyridin-3-yl)-2-{{4-[(1-methylpiperidin-4-yl)amino]-2-(propan-2-yloxy)phenyl}amino}thieno[3,2-d]pyrimidine-6-carboxamide;
- 2-[[4-(4-ethylpiperazin-1-yl)-2-(propan-2-yloxy)phenyl]amino]-7-(2-methoxypyridin-3-yl)thieno[3,2-d]pyrimidine-6-carboxamide;
- 7-(2-methoxyphenyl)-2-{{1-methyl-2-oxo-8-(propan-2-yloxy)-2,3,4,5-tetrahydro-1H-1-benzazepin-7-yl}amino}thieno[3,2-d]pyrimidine-6-carboxamide;
- 30 7-(2-methoxyphenyl)-2-{{1-(propan-2-yl)-3-(tetrahydro-2H-pyran-4-yl)-1H-pyrazol-5-yl}amino}thieno[3,2-d]pyrimidine-6-carboxamide;
- 7-(2-methoxypyridin-3-yl)-2-{{1-methyl-2-oxo-8-(propan-2-yloxy)-2,3,4,5-tetrahydro-1H-1-benzazepin-7-yl}amino}thieno[3,2-d]pyrimidine-6-carboxamide;
- 35 7-(2-methoxypyridin-3-yl)-2-{{4-(1-methyl-1H-pyrazol-4-yl)-2-(propan-2-yloxy)phenyl}amino}thieno[3,2-d]pyrimidine-6-carboxamide;

[7-(2-methoxyphenyl)-2-{{4-(1-methylpiperidin-4-yl)-2-(propan-2-yloxy)phenyl}amino}thieno[3,2-d]pyrimidin-6-yl]methanol;

[7-(2-methoxyphenyl)-2-{{4-(4-methylpiperazin-1-yl)-2-(propan-2-yloxy)phenyl}amino}thieno[3,2-d]pyrimidin-6-yl]methanol;

5 [7-(2-methoxy-6-methylpyridin-3-yl)-2-{{4-(4-methylpiperazin-1-yl)-2-(propan-2-yloxy)phenyl}amino}thieno[3,2-d]pyrimidin-6-yl]methanol;

[7-(5-fluoro-2-methoxypyridin-3-yl)-2-{{4-(4-methylpiperazin-1-yl)-2-(propan-2-yloxy)phenyl}amino}thieno[3,2-d]pyrimidin-6-yl]methanol;

[7-(2-ethoxypyridin-3-yl)-2-{{4-(4-methylpiperazin-1-yl)-2-(propan-2-yloxy)phenyl}amino}thieno[3,2-d]pyrimidin-6-yl]methanol;

10 [7-(2-methoxypyridin-3-yl)-2-{{5-methyl-4-(4-methylpiperazin-1-yl)-2-(propan-2-yloxy)phenyl}amino}thieno[3,2-d]pyrimidin-6-yl]methanol;

[7-(5-fluoro-2-methoxypyridin-3-yl)-2-{{5-methyl-4-(4-methylpiperazin-1-yl)-2-(propan-2-yloxy)phenyl}amino}thieno[3,2-d]pyrimidin-6-yl]methanol;

15 [7-(2-methoxy-6-methylpyridin-3-yl)-2-{{5-methyl-4-(4-methylpiperazin-1-yl)-2-(propan-2-yloxy)phenyl}amino}thieno[3,2-d]pyrimidin-6-yl]methanol;

[7-(2-methoxy-6-methylpyridin-3-yl)-2-{{1-(propan-2-yl)-3-(tetrahydro-2H-pyran-4-yl)-1H-pyrazol-5-yl}amino}thieno[3,2-d]pyrimidin-6-yl]methanol;

[7-(2-ethoxypyridin-3-yl)-2-{{5-methyl-4-(4-methylpiperazin-1-yl)-2-(propan-2-yloxy)phenyl}amino}thieno[3,2-d]pyrimidin-6-yl]methanol;

20 [7-(2-methoxyphenyl)-2-{{5-methyl-4-(4-methylpiperazin-1-yl)-2-(propan-2-yloxy)phenyl}amino}thieno[3,2-d]pyrimidin-6-yl]methanol;

[7-(2-methoxy-6-methylpyridin-3-yl)-2-{{4-(1-methyl-1,7-diazaspiro[4.4]non-7-yl)-2-(propan-2-yloxy)phenyl}amino}thieno[3,2-d]pyrimidin-6-yl]methanol;

25 [2-{{4-chloro-2-(propan-2-yloxy)phenyl}amino}-7-(2-methoxypyridin-3-yl)thieno[3,2-d]pyrimidin-6-yl]methanol;

(2-{{3-methyl-1-(propan-2-yl)-1H-pyrazol-5-yl}amino}-7-[2-(trifluoromethoxy)phenyl]thieno[3,2-d]pyrimidin-6-yl]methanol;

[7-(5-fluoro-2-methoxypyridin-3-yl)-2-{{3-methyl-1-(propan-2-yl)-1H-pyrazol-5-yl}amino}thieno[3,2-d]pyrimidin-6-yl]methanol;

30 (2-{{1-(propan-2-yl)-3-(tetrahydro-2H-pyran-4-yl)-1H-pyrazol-5-yl}amino}-7-[2-(trifluoromethoxy)phenyl]thieno[3,2-d]pyrimidin-6-yl]methanol;

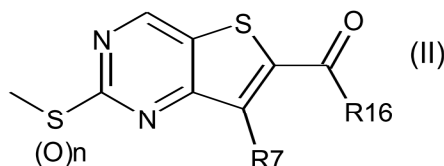
[7-(2-methoxyphenyl)-2-{{1-(propan-2-yl)-3-(tetrahydro-2H-pyran-4-yl)-1H-pyrazol-5-yl}amino}thieno[3,2-d]pyrimidin-6-yl]methanol;

35 [7-(5-fluoro-2-methoxyphenyl)-2-{{3-methyl-1-(propan-2-yl)-1H-pyrazol-5-yl}amino}thieno[3,2-d]pyrimidin-6-yl]methanol;

[7-(5-fluoro-2-methoxyphenyl)-2-{{4-(4-methylpiperazin-1-yl)-2-(propan-2-yloxy)phenyl}amino}thieno[3,2-d]pyrimidin-6-yl]methanol;
 (2-{{4-(4-methylpiperazin-1-yl)-2-(propan-2-yloxy)phenyl}amino}-7-[2-(trifluoromethoxy)phenyl]thieno[3,2-d]pyrimidin-6-yl]methanol;
 5 [7-(2-methoxypyridin-3-yl)-2-{{4-(1-methyl-1H-pyrazol-4-yl)-2-(propan-2-yloxy)phenyl}amino}thieno[3,2-d]pyrimidin-6-yl]methanol;
 [7-(2-methoxyphenyl)-2-{{4-(1-methyl-1H-pyrazol-4-yl)-2-(propan-2-yloxy)phenyl}amino}thieno[3,2-d]pyrimidin-6-yl]methanol;
 [2-{{5-methyl-4-(4-methylpiperazin-1-yl)-2-(propan-2-yloxy)phenyl}amino}-7-(6-methylpyridin-3-yl)thieno[3,2-d]pyrimidin-6-yl]methanol;
 10 [7-(2-methoxypyridin-3-yl)-2-{{4-(4-methylpiperazin-1-yl)-2-(propan-2-yloxy)phenyl}amino}thieno[3,2-d]pyrimidin-6-yl]methanol;
 [7-(2-methoxyphenyl)-2-{{4-(1-methylpyrrolidin-3-yl)-2-(propan-2-yloxy)phenyl}amino}thieno[3,2-d]pyrimidin-6-yl]methanol;
 15 2-(2-{{2-methoxy-4-(4-methylpiperazin-1-yl)phenyl}amino}-7-phenylthieno[3,2-d]pyrimidin-6-yl)propan-2-ol;
 2-[2-{{2-methoxy-4-(4-methylpiperazin-1-yl)phenyl}amino}-7-(2-methoxyphenyl)thieno[3,2-d]pyrimidin-6-yl]propan-2-ol; and
 2-[7-(4-fluoro-2-methoxyphenyl)-2-{{2-methoxy-4-(4-methylpiperazin-1-yl)phenyl}amino}thieno[3,2-d]pyrimidin-6-yl]propan-2-ol;

or a pharmaceutically acceptable salt thereof.

13. A process for preparing a compound according to Claim 1, wherein a
 25 thienopyrimidine of formula (II):



wherein

R7 is an aryl or heteroaryl group, this group being optionally substituted with one or several substituents selected, independently in each instance, from: cyano, halogen, (C₁-C₆)alkyl, OR'₄, CH₂OH, CH₂NH₂, S(O)_nR'₄, R8 and OR8;

wherein:

R'4 is a hydrogen atom or a (C₁-C₆)alkyl or aryl group, said alkyl and aryl groups being optionally substituted with a halogen atom or an NH₂ or OH group;

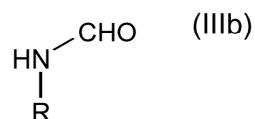
R8 is a halo(C₁-C₆)alkyl group;

n is 1 or 2;

R16 is a (C₁-C₆)alkoxy group;

is reacted

a) with a compound of formula (IIIb):



wherein

R is a phenyl or heteroaryl group substituted with R1, R'1, R2 and R3;

R1 is a hydrogen atom or is selected from the following groups: (C₁-C₆)alkyl, (C₁-C₆)alkoxy, (C₃-C₇)cycloalkyl and aryl, these groups being optionally substituted with one or several substituents selected, independently in each instance, from: amino, hydroxyl, thiol, halogen, (C₁-C₆)alkyl, (C₁-C₆)alkoxy, (C₁-C₆)alkylthio, (C₁-C₆)alkylamino, aryloxy, aryl(C₁-C₆)alkoxy, cyano, halo(C₁-C₆)alkyl, carboxyl and carboxy(C₁-C₆)alkyl;

R'1 is a hydrogen atom or a (C₁-C₆)alkoxy group;

R2 is selected from:

- a hydrogen atom, a halogen atom or a (C₁-C₆)alkyl, (C₃-C₇)cycloalkyl or (C₁-C₆)alkoxy group;

- a heterocycloalkyl, heterocycloalkyl-CH₂- or heteroaryl group;

these heterocycloalkyl, heterocycloalkyl-CH₂- and heteroaryl groups being optionally substituted with one or several substituents selected, independently in each instance, from: (C₁-C₆)alkyl, (C₃-C₇)cycloalkyl, (C₁-C₆)alkoxy, heterocycloalkyl, carboxy(C₁-C₆)alkyl, NR₄R₅ and OR₄;

said (C₁-C₆)alkyl group being optionally substituted with a halogen atom or a (C₁-C₆)alkoxy, heterocycloalkyl, NH₂ or OH group; and

- an NR_aR_b group, where R_a and R_b are, independently of one another:

. a hydrogen atom;

. a heterocycloalkyl group, said heterocycloalkyl group being optionally substituted with a (C₁-C₆)alkyl group; or

. a (C₁-C₆)alkyl group, said (C₁-C₆)alkyl group being optionally substituted with an NR₄R₅ group;

wherein:

R₄ and R₅ each is, independently of one another, a hydrogen atom, a (C₁-C₆)alkyl group or a heterocycloalkyl group;

or else R₄ and R₅ together form, with the nitrogen atom which bears them, a 4- to 7-membered ring;

R₃ is a hydrogen atom, a halogen atom or a (C₁-C₆)alkyl group;

wherein when R is a phenyl group, two adjacent substituents on the phenyl group may together form a heterocycloalkyl ring fused with the phenyl bearing them, this heterocycloalkyl being optionally substituted with one or several substituents selected, independently in each instance, from: an oxo group and a (C₁-C₆)alkyl group;

b) then step a) is followed:

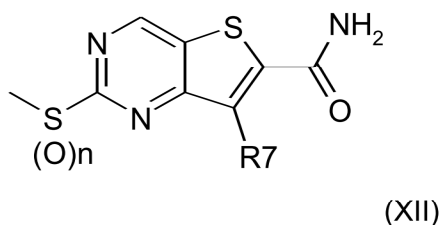
- either by a step of treating the mixture obtained with an aqueous ammonia solution so as to obtain the compounds of formula (I) wherein R₆ is -CONH₂;

- or by a step of reducing the mixture obtained with a reducing agent in a solvent, which makes it possible to obtain the compounds of formula (I) in which R₆ is a -C(R_α)(R_β)(OH) group wherein R_α and R_β are hydrogen atoms;

- or by a step of treating the mixture obtained with an excess of an organometallic derivative (R_αMgX or R_βLi for example) in a solvent, which makes it possible to obtain the compounds of formula (I) wherein R₆ is a -C(R_α)(R_β)(OH) group where R_α and R_β are identical and are a (C₁-C₆)alkyl group.

14. A process for preparing a compound according to Claim 1 and wherein R6 is -CONH₂,

wherein a compound of formula (XII):



in which

R7 is an aryl or heteroaryl group, this group being optionally substituted with at least one substituent selected from: cyano, halogen, (C₁-C₆)alkyl, OR'4, CH₂OH, CH₂NH₂, S(O)_nR'4, R8 and OR8;

wherein:

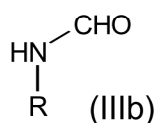
R'4 is a hydrogen atom or a (C₁-C₆)alkyl or aryl group, said alkyl and aryl groups being optionally substituted with a halogen atom or an NH₂ or OH group;

R8 being a halo(C₁-C₆)alkyl group;

n is 1 or 2;

is reacted

with a compound of formula (IIIb)



wherein

R is a phenyl or heteroaryl group substituted with R1, R'1, R2 and R3;

R1 is a hydrogen atom or is selected from the following groups: (C₁-C₆)alkyl, (C₁-C₆)alkoxy, (C₃-C₇)cycloalkyl and aryl, these groups being optionally substituted with one or several substituents selected, independently in each instance, from: amino, hydroxyl, thiol, halogen, (C₁-C₆)alkyl, (C₁-C₆)alkoxy, (C₁-C₆)alkylthio, (C₁-

C₆)alkylamino, aryloxy, aryl(C₁-C₆)alkoxy, cyano, halo(C₁-C₆)alkyl, carboxyl and carboxy(C₁-C₆)alkyl;

R'1 is a hydrogen atom or a (C₁-C₆)alkoxy group;

5

R2 is selected from:

- a hydrogen atom, a halogen atom or a (C₁-C₆)alkyl, (C₃-C₇)cycloalkyl or (C₁-C₆)alkoxy group;

- a heterocycloalkyl, heterocycloalkyl-CH₂- or heteroaryl group;

10

these heterocycloalkyl, heterocycloalkyl-CH₂- and heteroaryl groups being optionally substituted with one or several substituents selected, independently in each instance, from: (C₁-C₆)alkyl, (C₃-C₇)cycloalkyl, (C₁-C₆)alkoxy, heterocycloalkyl, carboxy(C₁-C₆)alkyl, NR₄R₅ and OR₄;

said alkyl group being optionally substituted with a halogen atom or a (C₁-C₆)alkoxy, heterocycloalkyl, NH₂ or OH group;

15

wherein:

R₄ and R₅ each is, independently of one another, a hydrogen atom, a (C₁-C₆)alkyl group or a heterocycloalkyl group;

or else R₄ and R₅ together form, with the nitrogen atom which bears them, a 4- to 7-membered ring; and

20

- an NR_aR_b group, where R_a and R_b are, independently of one another:

. a hydrogen atom;

. a heterocycloalkyl group, said heterocycloalkyl group being optionally substituted with a (C₁-C₆)alkyl group; or

25

. a (C₁-C₆)alkyl group, said alkyl group being optionally substituted with an NR₄R₅ group;

wherein:

R₄ and R₅ each is, independently of one another, a hydrogen atom, a (C₁-C₆)alkyl group or a heterocycloalkyl group;

30

or else R₄ and R₅ together form, with the nitrogen atom which bears them, a 4- to 7-membered ring; and

R₃ is a hydrogen atom, a halogen atom or a (C₁-C₆)alkyl group;

35

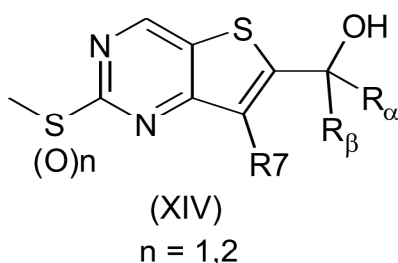
wherein when R is a phenyl group, two adjacent substituents on the phenyl group may together form a heterocycloalkyl ring fused with the phenyl bearing them, this

heterocycloalkyl being optionally substituted with one or several substituents selected, independently in each instance, from: an oxo group and a (C₁-C₆)alkyl group;

in the presence of an organic or inorganic base in a polar aprotic solvent.

15. A process for preparing a compound according to Claim 1 and in which R₆ is a -C(R_α)(R_β)(OH) group, wherein R_α and R_β are, independently of one another, a hydrogen atom or a (C₁-C₆)alkyl group, or together form, with the carbon atom which bears them, a 3- to 5-membered carbocycle,

wherein a compound of formula (XIV):



wherein

R_α and R_β are, independently of one another, a hydrogen atom or a (C₁-C₆)alkyl group, or together form, with the carbon atom which bears them, a 3- to 5-membered carbocycle;

R₇ is an aryl or heteroaryl group, this group being optionally substituted with one or several substituents selected, independently in each instance, from: cyano, halogen, (C₁-C₆)alkyl, OR'₄, CH₂OH, CH₂NH₂, S(O)_nR'₄, R₈ and OR₈;

wherein:

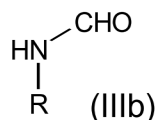
R'₄ is a hydrogen atom or a (C₁-C₆)alkyl or aryl group, said alkyl and aryl groups being optionally substituted with at least one halogen atom or an NH₂ or OH group;

R₈ is a halo(C₁-C₆)alkyl group;

n is 1 or 2;

is reacted

with a compound of formula (IIIb)



wherein

5

R is a phenyl or heteroaryl group substituted with R₁, R'₁, R₂ and R₃;

10

R₁ is a hydrogen atom or is selected from the following groups: (C₁-C₆)alkyl, (C₁-C₆)alkoxy, (C₃-C₇)cycloalkyl and aryl, these groups being optionally substituted with one or several substituents selected, independently in each instance, from: amino, hydroxyl, thiol, halogen, (C₁-C₆)alkyl, (C₁-C₆)alkoxy, (C₁-C₆)alkylthio, (C₁-C₆)alkylamino, aryloxy, aryl(C₁-C₆)alkoxy, cyano, halo(C₁-C₆)alkyl, carboxyl and carboxy(C₁-C₆)alkyl;

15

R'₁ is a hydrogen atom or a (C₁-C₆)alkoxy group;

R₂ is selected from:

20

- a hydrogen atom, a halogen atom or a (C₁-C₆)alkyl, (C₃-C₇)cycloalkyl or (C₁-C₆)alkoxy group;

- a heterocycloalkyl, heterocycloalkyl-CH₂- or heteroaryl group;

these heterocycloalkyl, heterocycloalkyl-CH₂- and heteroaryl groups being optionally substituted with one or several substituents selected, independently in each instance, from: (C₁-C₆)alkyl, (C₃-C₇)cycloalkyl, (C₁-C₆)alkoxy, heterocycloalkyl, carboxy(C₁-C₆)alkyl, NR₄R₅ and OR₄;

25

said alkyl group being optionally substituted with a halogen atom or a (C₁-C₆)alkoxy, heterocycloalkyl, NH₂ or OH group; and

wherein:

R₄ and R₅ each is, independently of one another, a hydrogen atom, a (C₁-C₆)alkyl group or a heterocycloalkyl group;

30

or else R₄ and R₅ together form, with the nitrogen atom which bears them, a 4- to 7-membered ring; and

- an NR_aR_b group, where R_a and R_b are, independently of one another:

. a hydrogen atom;

. a heterocycloalkyl group, said heterocycloalkyl group being optionally substituted with a (C₁-C₆)alkyl group; or

. a (C₁-C₆)alkyl group, said alkyl group being optionally substituted with an NR₄R₅ group;

wherein:

R₄ and R₅ each is, independently of one another, a hydrogen atom, a (C₁-C₆)alkyl group or a heterocycloalkyl group;

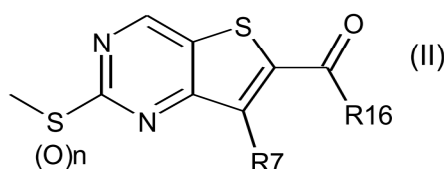
or else R₄ and R₅ together form, with the nitrogen atom which bears them, a 4- to 7-membered ring; and

R₃ is a hydrogen atom, a halogen atom or a (C₁-C₆)alkyl group;

wherein when R is a phenyl group, two adjacent substituents on the phenyl group may together form a heterocycloalkyl ring fused with the phenyl bearing them, this heterocycloalkyl being optionally substituted with one or several substituents selected, independently in each instance, from: an oxo group and a (C₁-C₆)alkyl group;

in the presence of an organic or inorganic base in a polar aprotic solvent.

16. A compound of formula (II):



wherein:

R₇ is an aryl group or heteroaryl group, this group being optionally substituted with one or several substituents selected, independently in each instance, from: cyano, halogen, (C₁-C₆)alkyl, OR'₄, CH₂OH, CH₂NH₂, S(O)_nR'₄, R₈ and OR₈;

wherein:

R'₄ is a hydrogen atom or a (C₁-C₆)alkyl or aryl group, said alkyl and aryl groups being optionally substituted with a halogen atom or an NH₂ or OH group;

R₈ is a halo(C₁-C₆)alkyl group;

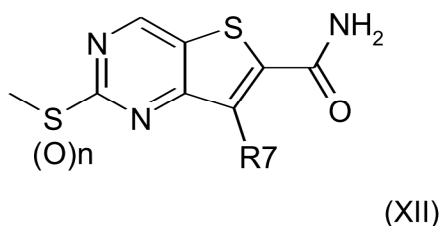
n is 1 or 2;

R16 is a (C₁-C₆)alkoxy group;

or a pharmaceutically acceptable salt thereof.

5

17. A compound of formula (XII):



wherein:

10

R7 is an aryl or heteroaryl group, this group being optionally substituted with one or several substituents selected, independently in each instance, from: cyano, halogen, (C₁-C₆)alkyl, OR'₄, CH₂OH, CH₂NH₂, S(O)_nR'₄, R8 and OR8;

wherein:

15

R'₄ is a hydrogen atom or a (C₁-C₆)alkyl or aryl group, said alkyl and aryl groups being optionally substituted with a halogen atom or an NH₂ or OH group;

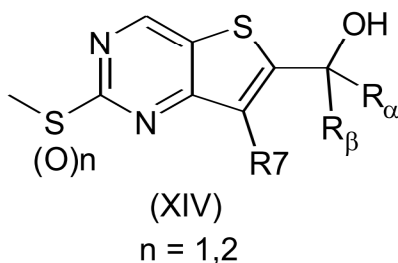
R8 is a halo(C₁-C₆)alkyl group;

n is equal to 1 or to 2;

20

or a pharmaceutically acceptable salt thereof.

18. A compound of formula (XIV):



25

wherein:

R_α and R_β are, independently of one another, a hydrogen atom or a (C₁-C₆)alkyl group or together form, with the carbon atom which bears them, a 3- to 5-membered carbocycle;

5 R7 is an aryl or heteroaryl group, this group being optionally substituted with one or several substituents selected, independently in each instance, from: cyano, halogen, (C₁-C₆)alkyl, OR'4, CH₂OH, CH₂NH₂, S(O)_nR'4, R8 and OR8;

wherein:

10 R'4 is a hydrogen atom or a (C₁-C₆)alkyl or aryl group, said alkyl and aryl groups being optionally substituted with a halogen atom or an NH₂ or OH group;

R8 is a halo(C₁-C₆)alkyl group;

n is 1 or 2;

or a pharmaceutically acceptable salt thereof.

15 **19.** A medicament comprising a compound according to any one of Claims 1 to 12, or a pharmaceutically acceptable salt thereof.

20 **20.** A pharmaceutical composition, comprising a compound according to any one of Claims 1 to 12, or a pharmaceutically acceptable salt thereof, and also at least one pharmaceutically acceptable excipient.

21. A compound according to any one of Claims 1 to 12, for use in treating cancer.