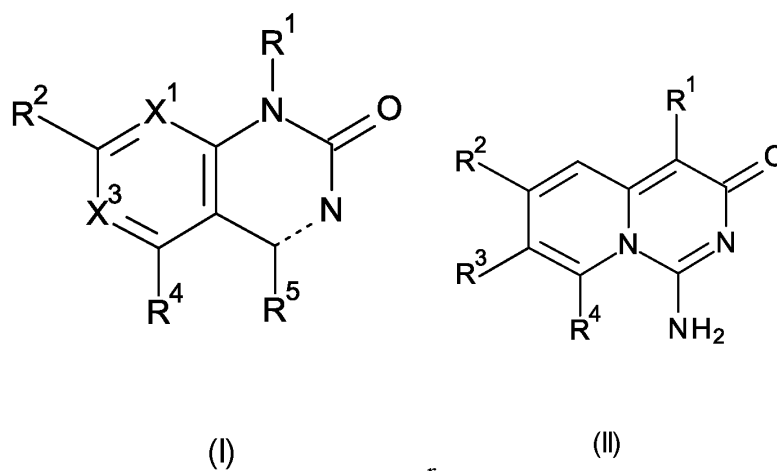


Claims

1. A compound formula I or II:



wherein

X^1 is either N or CH;

X^3 is either N or CR^3 ;

the dotted line represents a single bond when R^5 is oxo or a double bond when R^5 is - NH_2 ,

R^1 is (C_1-C_6) alkyl optionally substituted with one or more, particularly one to three, more particularly one or two substituents R^{1a} , (C_1-C_6) alkoxy optionally substituted with one or more, particularly one to three, more particularly one or two substituents R^{1b} , halo(C_1-C_6)alkyl optionally substituted with one or more, particularly one to three, more particularly one or two substituents R^{1a} , halo(C_1-C_6)alkoxy optionally substituted with one or more, particularly one to three, more particularly one or two substituents R^{1b} , (C_3-C_8) cycloalkyl optionally substituted with one or more, particularly one to three, more particularly one or two substituents R^{1c} , heteroaryl optionally substituted with one or more, particularly one to three, more particularly one or two substituents R^{1d} , heterocycloalkyl optionally substituted with one or more, particularly one to three, more particularly one or two substituents R^{1e} or phenyl optionally substituted with one or more, particularly one to three, more particularly one or two substituents R^{1f} ;

R^{1a} and R^{1b} are each independently selected from (C_3-C_6) cycloalkyl, hydroxyl, heteroaryl, heterocycloalkyl and phenyl, wherein heteroaryl, heterocycloalkyl or phenyl are optionally substituted with one or more, particularly one to three, more particularly one or two substituents R^{1g} ;

R^{1c} , R^{1d} , R^{1e} and R^{1f} are each independently selected from halogen, oxo, cyano, hydroxyl, (C₁-C₆)alkyl, (C₁-C₆)alkoxy, (C₃-C₆)cycloalkyl, (C₃-C₆)cycloalkyl-(C₁-C₆)alkyl, halo(C₁-C₆)alkyl, halo(C₁-C₆)alkoxy, hydroxy(C₁-C₆)alkyl, (C₁-C₆)alkoxy-(C₁-C₆)alkyl, heteroaryl, heterocycloalkyl and phenyl;

5 R^{1g} are each independently selected from halogen, cyano, hydroxyl, (C₁-C₆)alkyl, (C₁-C₆)alkoxy, (C₃-C₆)cycloalkyl, (C₃-C₆)cycloalkyl-(C₁-C₆)alkyl, halo(C₁-C₆)alkyl, halo(C₁-C₆)alkoxy, hydroxy(C₁-C₆)alkyl and (C₁-C₆)alkoxy-(C₁-C₆)alkyl;

R^2 is hydrogen, halogen, amino, (C₁-C₆)alkyl, (C₁-C₆)alkoxy, halo(C₁-C₆)alkyl, halo(C₁-C₆)alkoxy, (C₃-C₆)cycloalkyl optionally substituted with one or more, particularly one to three, more particularly one or two substituents R^{2a} , (C₃-C₆)cycloalkyl-(C₁-C₆)alkyl optionally substituted with one or more, particularly one to three, more particularly one or two substituents R^{2b} , (C₃-C₆)cycloalkyl-(C₁-C₆)alkoxy optionally substituted with one or more, particularly one to three, more particularly one or two substituents R^{2c} , heterocycloalkyl optionally substituted with one or more, particularly one to three, more particularly one or two substituents R^{2d} NR^{2f}R^{2g} or phenyl optionally substituted with one or more, particularly one to three, more particularly one or two substituents R^{2e} ;

R^{2a} , R^{2b} , R^{2c} , R^{2d} and R^{2e} are each independently selected from halogen, (C₁-C₆)alkyl, (C₁-C₆)alkoxy, halo(C₁-C₆)alkyl and halo(C₁-C₆)alkoxy;

R^{2f} and R^{2g} are each independently selected from hydrogen or (C₁-C₆)alkyl;

20 R^3 is hydrogen, halogen, cyano, amino, (C₁-C₆)alkyl, (C₁-C₆)alkoxy, halo(C₁-C₆)alkyl, halo(C₁-C₆)alkoxy, (C₃-C₆)cycloalkyl optionally substituted with one or more, particularly one to three, more particularly one or two substituents R^{3a} , (C₃-C₆)cycloalkyl-(C₁-C₆)alkyl optionally substituted with one or more, particularly one to three, more particularly one or two substituents R^{3b} , (C₃-C₆)cycloalkyl-(C₁-C₆)alkoxy optionally substituted with one or more, particularly one to three, more particularly one or two substituents R^{3c} , heterocycloalkyl optionally substituted with one or more, particularly one to three, more particularly one or two substituents R^{3d} or phenyl optionally substituted with one or more, particularly one to three, more particularly one or two substituents R^{3e} ;

30 R^{3a} , R^{3b} , R^{3c} , R^{3d} and R^{3e} are each independently selected from halogen, (C₁-C₆)alkyl, (C₁-C₆)alkoxy, halo(C₁-C₆)alkyl and halo(C₁-C₆)alkoxy;

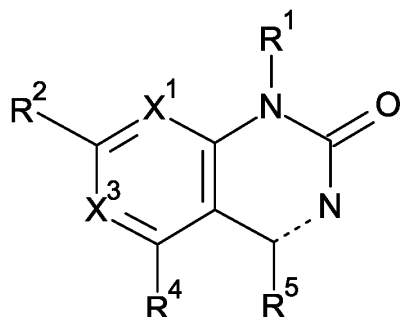
R^4 is hydrogen, cyano, hydroxy, halogen, amino, (C₁-C₆)alkyl, (C₁-C₆)alkoxy, halo(C₁-C₆)alkyl, halo(C₁-C₆)alkoxy, (C₁-C₆)alkoxy-(C₁-C₆)alkyl, (C₃-C₆)cycloalkyl, (C₃-C₆)cycloalkyl-(C₁-C₆)alkyl, (C₃-C₆)cycloalkyl optionally substituted with one or more, particularly one to three, more particularly one or two substituents R^{4a} , (C₃-C₆)cycloalkyl-(C₁-C₆)alkyl optionally substituted with one or more, particularly one to three, more particularly one or two substituents R^{4b} , (C₃-C₆)cycloalkyl-(C₁-C₆)alkoxy optionally substituted with one or more, particularly one to three, more particularly one or two substituents R^{4c} , heterocycloalkyl optionally substituted with one or more, particularly one to three, more particularly one or two substituents R^{4d} , -CO₂ R^{4a} or -CONR^{4b} R^{4c} ;

R^{4a} , R^{4b} , R^{4c} and R^{4d} , R^{4e} are each independently selected from hydrogen and (C₁-C₆)alkyl;

R^5 is -NH₂ or oxo;

and pharmaceutically acceptable salts thereof.

2. A compound according to claim 1, wherein the compound is of formula I:



(I)

or

wherein

X^1 is either N or CH;

X^3 is either N or CR³;

the dotted line represents a single bond when R^5 is oxo or a double bond when R^5 is -NH₂,

R^1 is (C₁-C₆)alkyl optionally substituted with one or more, particularly one to three, more particularly one or two substituents R^{1a} , (C₁-C₆)alkoxy optionally substituted with one or

more, particularly one to three, more particularly one or two substituents R^{1b}, (C₃-C₈)cycloalkyl optionally substituted with one or more, particularly one to three, more particularly one or two substituents R^{1c}, heteroaryl optionally substituted with one or more, particularly one to three, more particularly one or two substituents R^{1d},
5 heterocycloalkyl optionally substituted with one or more, particularly one to three, more particularly one or two substituents R^{1e} or phenyl optionally substituted with one or more, particularly one to three, more particularly one or two substituents R^{1f};

R^{1a} and R^{1b} are each independently selected from (C₃-C₆)cycloalkyl, hydroxyl, heteroaryl, heterocycloalkyl and phenyl, wherein heteroaryl, heterocycloalkyl or phenyl
10 are optionally substituted with one or more, particularly one to three, more particularly one or two substituents R^{1g};

R^{1c}, R^{1d}, R^{1e} and R^{1f} are each independently selected from halogen, oxo, cyano, hydroxy, (C₁-C₆)alkyl, (C₁-C₆)alkoxy, (C₃-C₆)cycloalkyl, (C₃-C₆)cycloalkyl-(C₁-C₆)alkyl, halo(C₁-C₆)alkyl, halo(C₁-C₆)alkoxy, hydroxy(C₁-C₆)alkyl, (C₁-C₆)alkoxy-(C₁-C₆)alkyl,
15 heteroaryl, heterocycloalkyl and phenyl;

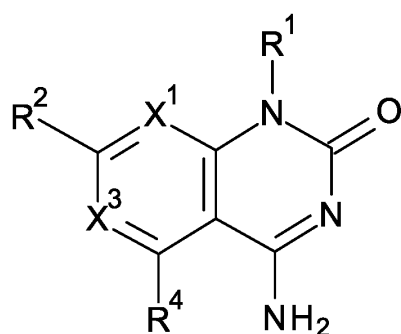
R^{1g} are each independently selected from halogen, cyano, hydroxyl, (C₁-C₆)alkyl, (C₁-C₆)alkoxy, (C₃-C₆)cycloalkyl, (C₃-C₆)cycloalkyl-(C₁-C₆)alkyl, halo(C₁-C₆)alkyl, halo(C₁-C₆)alkoxy, hydroxy(C₁-C₆)alkyl and (C₁-C₆)alkoxy-(C₁-C₆)alkyl;

R² is hydrogen, halogen, amino, (C₁-C₆)alkyl, (C₁-C₆)alkoxy, halo(C₁-C₆)alkyl, halo(C₁-C₆)alkoxy, (C₃-C₆)cycloalkyl optionally substituted with one or more, particularly one to three, more particularly one or two substituents R^{2a}, (C₃-C₆)cycloalkyl-(C₁-C₆)alkyl optionally substituted with one or more, particularly one to three, more particularly one or two substituents R^{2b}, (C₃-C₆)cycloalkyl-(C₁-C₆)alkoxy optionally substituted with one or more, particularly one to three, more particularly one or two substituents R^{2c},
20 heterocycloalkyl optionally substituted with one or more, particularly one to three, more particularly one or two substituents R^{2d} or phenyl optionally substituted with one or more, particularly one to three, more particularly one or two substituents R^{2e};

R^{2a}, R^{2b}, R^{2c}, R^{2d} and R^{2e} are each independently selected from halogen, (C₁-C₆)alkyl, (C₁-C₆)alkoxy, halo(C₁-C₆)alkyl and halo(C₁-C₆)alkoxy;

R³ is hydrogen, halogen, cyano, amino, (C₁-C₆)alkyl, (C₁-C₆)alkoxy, halo(C₁-C₆)alkyl, halo(C₁-C₆)alkoxy, (C₃-C₆)cycloalkyl optionally substituted with one or more,
30

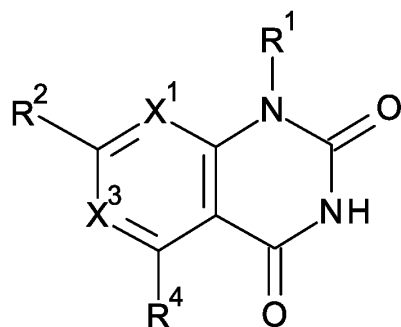
- particularly one to three, more particularly one or two substituents R^{3a} , (C₃-C₆)cycloalkyl-(C₁-C₆)alkyl optionally substituted with one or more, particularly one to three, more particularly one or two substituents R^{3b} , (C₃-C₆)cycloalkyl-(C₁-C₆)alkoxy optionally substituted with one or more, particularly one to three, more particularly one or two substituents R^{3c} , heterocycloalkyl optionally substituted with one or more, particularly one to three, more particularly one or two substituents R^{3d} or phenyl optionally substituted with one or more, particularly one to three, more particularly one or two substituents R^{3e} ;
- R^{3a} , R^{3b} , R^{3c} , R^{3d} and R^{3e} are each independently selected from halogen, (C₁-C₆)alkyl, (C₁-C₆)alkoxy, halo(C₁-C₆)alkyl and halo(C₁-C₆)alkoxy;
- R^4 is hydrogen, cyano, hydroxy, halogen, amino, (C₁-C₆)alkyl, (C₁-C₆)alkoxy, halo(C₁-C₆)alkyl, halo(C₁-C₆)alkoxy, (C₁-C₆)alkoxy-(C₁-C₆)alkyl, (C₃-C₆)cycloalkyl, (C₃-C₆)cycloalkyl-(C₁-C₆)alkyl, (C₃-C₆)cycloalkyl optionally substituted with one or more, particularly one to three, more particularly one or two substituents R^{4a} , (C₃-C₆)cycloalkyl-(C₁-C₆)alkyl optionally substituted with one or more, particularly one to three, more particularly one or two substituents R^{4b} , (C₃-C₆)cycloalkyl-(C₁-C₆)alkoxy optionally substituted with one or more, particularly one to three, more particularly one or two substituents R^{4c} , heterocycloalkyl optionally substituted with one or more, particularly one to three, more particularly one or two substituents R^{4d} , phenyl optionally substituted with one or more R^{4e} , -CO₂ R^{4a} , -CONR^{4b} R^{4c} , -SO₂ R^{4d} , -SOR^{4e}, -SR^{4f} or SO(NR^{4h}) R^{4g}
- R^{4a} , R^{4b} , R^{4c} , R^{4d} , R^{4e} , R^{4f} , R^{4g} and R^{4h} are each independently selected from hydrogen and (C₁-C₆)alkyl;
- R^5 is -NH₂ or oxo;
- and pharmaceutically acceptable salts thereof.
3. The compound according to claim 1 or 2, wherein the compound is of formula I':



(I)

wherein X^1 , X^3 , R^1 , R^2 and R^4 are as defined according to claim 1 or 2.

4. The compound according to claim 1 or 2, wherein the compound is of formula I':



(I')

- 5 wherein X^1 , X^3 , R^1 , R^2 and R^4 are as defined according to claim 1 or 2.
5. The compound according to any one of claims 1 to 4, wherein X^3 is CR^3 .
6. The compound according to any one of claims 1 to 5, wherein X^1 is N.
7. The compound according to any one of claims 1 to 6, wherein R^1 is (C_1-C_6) alkyl optionally substituted with one R^{1a} , (C_3-C_6) cycloalkyl optionally substituted with one R^{1c} , heteroaryl optionally substituted with one or two R^{1d} , heterocycloalkyl optionally substituted with one R^{1e} or phenyl optionally substituted with one or two R^{1f} .
- 10 8. The compound according to any one of claims 1 to 7, wherein R^1 is (C_1-C_3) alkyl optionally substituted with one R^{1a} , (C_3-C_6) cycloalkyl optionally substituted with one R^{1c} , pyrazolyl optionally substituted with one R^{1d} , indazolyl optionally substituted with one R^{1d} , indolyl optionally substituted with one R^{1d} , benzo[d]oxazolyl optionally
- 15

- substituted with one R^{1d}, benzo[d]thiazolyl optionally substituted with one R^{1d},
benzo[d]imidazolyl optionally substituted with one R^{1d}, dioxepanyl optionally substituted
with one R^{1d}, oxazolyl optionally substituted with one R^{1d}, thiazolyl optionally
substituted with one R^{1d}, pyridinyl optionally substituted with one or two R^{1d},
5 pyrimidinyl optionally substituted with one R^{1d}, dihydropyrrolo[1,2-c]imidazolyl
optionally substituted with one R^{1e}, oxepanyl optionally substituted with one R^{1e},
dihydro-indolyl optionally substituted with one R^{1e}, 1,4-dioxepanyl optionally substituted
with one R^{1e}, tetrahydrofuranyl optionally substituted with one R^{1e}, tetrahydropyranyl
optionally substituted with one R^{1e}, piperidinyl optionally substituted with one R^{1e},
10 oxaspiro[2.5]octanyl optionally substituted with one R^{1e}, dihydrobenzofuranyl optionally
substituted with one R^{1e} or phenyl optionally substituted with one or two R^{1f}.
9. The compound according to any one of claims 1 to 8, wherein R¹ is (C₁-C₃)alkyl
optionally substituted by R^{1a}, cyclopentyl optionally substituted with one R^{1c}, indazol-4-
yl, pyrazolyl optionally substituted with one R^{1d}, oxazolyl optionally substituted with one
15 R^{1d}, thiazolyl optionally substituted with one R^{1d}, pyridinyl optionally substituted with
one or two R^{1d}, pyrimidinyl optionally substituted with one R^{1d}, oxepanyl,
tetrahydrofuranyl, tetrahydropyranyl, piperidinyl optionally substituted with one R^{1e},
oxaspiro[2.5]octanyl, 2,3-dihydrobenzofuranyl or phenyl optionally substituted with one
or two R^{1f}.
10. The compound according to any one of claims 1 to 7, wherein R¹ is (C₁-C₃)alkyl
optionally substituted by R^{1a}, cyclopentyl optionally substituted with one R^{1c}, pyrazolyl
optionally substituted with one R^{1d}, oxazolyl optionally substituted with one R^{1d},
thiazolyl optionally substituted with one R^{1d}, pyridinyl optionally substituted with one or
two R^{1d}, pyrimidinyl optionally substituted with one R^{1d}, tetrahydrofuranyl,
25 tetrahydropyranyl, piperidinyl optionally substituted with one R^{1e}, oxaspiro[2.5]octanyl,
2,3-dihydrobenzofuranyl or phenyl optionally substituted with one or two R^{1f}.
11. The compound according to any one of claims 1 to 7, wherein R¹ is heteroaryl optionally
substituted with one or two R^{1d}, heterocycloalkyl optionally substituted with one R^{1e} or
phenyl optionally substituted with one or two R^{1f}.
12. The compound according to any one of claims 1 to 11, wherein R¹ is pyridinyl optionally
substituted with one or two R^{1d}, oxaspiro[2.5]octanyl, 2,3-dihydrobenzofuranyl,
tetrahydropyranyl optionally substituted with one R^{1e} or phenyl optionally
substituted with one or two R^{1f}.
13. The compound according to any one of claims 1 to 11, wherein R¹ is
35 oxaspiro[2.5]octanyl or tetrahydropyranyl optionally substituted with one (C₁-C₃)alkyl.

14. The compound according to any one of claims 1 to 11, wherein R¹ is tetrahydropyranyl optionally substituted with one (C₁-C₃)alkyl in *alpha*.
15. The compound according to any one of claims 1 to 7, wherein R¹ is heteroaryl substituted with one or two R^{1d} wherein at least of one R^{1d} is substituted in *ortho*, heterocycloalkyl substituted with one R^{1e} substituted in *alpha* or phenyl substituted with one or two R^{1f} wherein at least of one R^{1f} is substituted in *ortho*.
16. The compound according to any one of claims 1 to 7, wherein R¹ is pyridinyl substituted with one or two R^{1d} wherein at least of one R^{1d} is substituted in *ortho*, tetrahydrofuranyl substituted with one R^{1e} substituted in *alpha*, tetrahydropyranyl substituted with one R^{1e} substituted in *alpha*, oxaspiro[2.5]octanyl or 2,3-dihydrobenzofuranyl substituted with one R^{1e}.
17. The compound according to any one of claims 1 to 7, wherein R¹ is tetrahydrofuranyl substituted with one R^{1e} substituted in *alpha*, tetrahydropyranyl substituted with one R^{1e} substituted in *alpha*, oxaspiro[2.5]octanyl or 2,3-dihydrobenzofuranyl substituted with one R^{1e}.
18. The compound according to any one of claims 1 to 7, wherein R¹ is tetrahydropyranyl substituted with one R^{1e} substituted in *alpha*.
19. The compound according to any one of claims 1 to 10, wherein R^{1a} and R^{1b} are each independently selected from heteroaryl, heterocycloalkyl and phenyl.
20. The compound according to any one of claims 1 to 10, wherein R^{1a} is selected from tetrahydrofuranyl, pyridinyl, oxetanyl or oxazolyl.
21. The compound according to any one of claims 1 to 18, wherein R^{1c}, R^{1d}, R^{1e} and R^{1f} are each independently selected from halogen, oxo, cyano, hydroxy, (C₁-C₆)alkyl, (C₁-C₆)alkoxy, halo(C₁-C₆)alkyl and halo(C₁-C₆)alkoxy.
22. The compound according to any one of claims 1 to 18, wherein R^{1c}, R^{1d}, R^{1e} and R^{1f} are each independently selected from chloro, fluoro, oxo, cyano, hydroxy, (C₁-C₃)alkyl, (C₁-C₃)alkoxy and halo(C₁-C₃)alkyl.
23. The compound according to any one of claims 1 to 18, wherein R^{1c}, R^{1d}, R^{1e} and R^{1f} are each independently selected from cyano, chloro and (C₁-C₃)alkyl.
24. The compound according to any one of claims 1 to 18, wherein R^{1d} are each independently selected from cyano, chloro and methyl.
25. The compound according to any one of claims 1 to 12, wherein R¹ is 2,3-dihydrobenzofuranyl, 2-hydroxycyclopentyl, 3-hydroxycyclopentyl, 1-(tetrahydrofuran-2-yl)ethyl, 1-tetrahydrofuran-3-yl-ethyl, 1-pyridin-2-yl-ethyl, oxepan-3-yl, 1,4-dioxepan-6-yl, dihydro-1H-indol-4-yl, 1-(oxetan-3-yl)ethyl, 1-(oxazol-5-yl)ethyl, indazol-4-yl,

- oxaspiro[2.5]octanyl, 4-methyloxazol-5-yl, 2-methoxy-phenyl, 3-methyl-phenyl, 2-methyl-phenyl, 3-fluoro-2-methoxyphenyl, 2-methylbenzonitrile, 2-methoxybenzonitrile, 2-ethoxybenzonitrile, 2-chlorophenyl, 3-chlorophenyl, 4-fluoro-2-methylphenyl, 3-fluoro-2-methylphenyl, 3-fluorophenyl, 2-fluorophenyl, 2,6-difluorophenyl, 2,3-dimethylphenyl, phenyl, 2,3-difluorophenyl, 2-fluoro-3-methylphenyl, 3-methoxyphenyl, 3,5-difluorophenyl, 3,4-difluorophenyl, 2-trifluoromethyl-phenyl, 3-(fluoromethyl)-2-methylphenyl, 3-ethylphenyl, 3-chloro-2-fluorophenyl, 2-chloro-5-fluorophenyl, 2-chloro-4-fluorophenyl, 2,3-dichlorophenyl, benzo[d]oxazol-4-yl, benzo[d]imidazolyl, benzo[d]thiazol-7-yl, 2-oxopiperidin-4-yl, 2-methylpyrazol-3-yl, 1-ethyl-1H-pyrazol-5-yl, 2-methylpyridin-3-yl, picolinonitrile, 2-methoxypyridin-3-yl, 2-(trifluoromethyl)pyridin-3-yl, 4-methylpyridin-3-yl, 4-fluoro-2-methoxypyridin-3-yl, indolyl, 2-chloropyridin-3-yl, 6-methoxypyridin-2-yl, 4-methylpyrimidin-5-yl, trifluoromethoxypyridin-2-yl, dihydrobenzofuranyl, tetrahydrofuranyl, 4-methyltetrahydrofuran-3-yl, methyl-tetrahydro-2H-pyran-3-yl, 6,7-dihydro-5H-pyrrolo[1,2-c]imidazol-7-yl, tetrahydro-2H-pyran-3-yl, tetrahydro-2H-pyran-4-yl or 4-methylthiazol-5-yl,
26. The compound according to any one of claims 1 to 12, wherein R¹ is 2,3-dihydrobenzofuranyl, 2-hydroxycyclopentyl, 3-hydroxycyclopentyl, 1-(tetrahydrofuran-2-yl)ethyl, 1-tetrahydrofuran-3-yl-ethyl, 1-pyridin-2-yl-ethyl, 1-(oxetan-3-yl)ethyl, 1-(oxazol-5-yl)ethyl, oxaspiro[2.5]octanyl, 4-methyloxazol-5-yl, 2-methoxy-phenyl, 3-methyl-phenyl, 2-methyl-phenyl, 3-fluoro-2-methoxyphenyl, 2-methylbenzonitrile, 2-methoxybenzonitrile, 2-ethoxybenzonitrile, 2-chlorophenyl, 4-fluoro-2-methylphenyl, 3-fluorophenyl, 2-fluorophenyl, 2,6-difluorophenyl, phenyl, 2,3-difluorophenyl, 3-methoxyphenyl, 3,5-difluorophenyl, 3-ethylphenyl, 2-oxopiperidin-4-yl, 2-methylpyrazol-3-yl, 1-ethyl-1H-pyrazol-5-yl, 2-methylpyridin-3-yl, picolinonitrile, 2-methoxypyridin-3-yl, 2-(trifluoromethyl)pyridin-3-yl, 4-methylpyridin-3-yl, 4-fluoro-2-methoxypyridin-3-yl, 2-chloropyridin-3-yl, 6-methoxypyridin-2-yl, 4-methylpyrimidin-5-yl, tetrahydrofuranyl, 4-methyltetrahydrofuran-3-yl, tetrahydro-2H-pyran-3-yl, tetrahydro-2H-pyran-4-yl or 4-methylthiazol-5-yl.
27. The compound according to any one of claims 1 to 12, wherein R¹ is 2,3-dihydrobenzofuranyl, oxaspiro[2.5]octanyl, oxepan-3-yl, 3-methyl-phenyl, 2-methyl-phenyl, 2-methylbenzonitrile, 2-chlorophenyl, phenyl, 2-methylpyridin-3-yl, 4-methylpyridin-3-yl, 4-chloropyridin-3-yl, methyl-tetrahydro-2H-pyran-3-yl or 4-methylpyrimidin-5-yl.

28. The compound according to any one of claims 1 to 12, wherein R¹ is 2,3-dihydrobenzofuranyl, oxaspiro[2.5]octanyl, 3-methyl-phenyl, 2-methyl-phenyl, 2-methylbenzonitrile, 2-chlorophenyl, phenyl, 2-methylpyridin-3-yl, 4-methylpyridin-3-yl, 4 2-chloropyridin-3-yl or 4-methylpyrimidin-5-yl .
- 5 29. The compound according to any one of claims 1 to 28, wherein R² is hydrogen, halogen, amino , (C₁-C₆)alkyl, (C₁-C₆)alkoxy, halo(C₁-C₆)alkyl, halo(C₁-C₆)alkoxy, (C₃-C₆)cycloalkyl optionally substituted with one or more, particularly one to three, more particularly one or two substituents R^{2a}, (C₃-C₆)cycloalkyl-(C₁-C₆)alkyl optionally substituted with one or more, particularly one to three, more particularly one or two substituents R^{2b}, (C₃-C₆)cycloalkyl-(C₁-C₆)alkoxy optionally substituted with one or more, particularly one to three, more particularly one or two substituents R^{2c}, heterocycloalkyl optionally substituted with one or more, particularly one to three, more particularly one or two substituents R^{2d} or phenyl optionally substituted with one or more, particularly one to three, more particularly one or two substituents R^{2e}; and R^{2a}, R^{2b}, R^{2c}, R^{2d} and R^{2e} are each independently selected from halogen, (C₁-C₆)alkyl, (C₁-C₆)alkoxy, halo(C₁-C₆)alkyl and halo(C₁-C₆)alkoxy.
- 10 30. The compound according to any one of claims 1 to 29, wherein R² is halogen, (C₁-C₆)alkyl, (C₁-C₆)alkoxy, halo(C₁-C₆)alkyl, halo(C₁-C₆)alkoxy, (C₃-C₆)cycloalkyl optionally substituted with one R^{2a}, (C₃-C₆)cycloalkyl-(C₁-C₆)alkoxy or heterocycloalkyl optionally substituted with one or two R^{2d} or phenyl.
- 15 31. The compound according to any one of claims 1 to 30, wherein R² is halogen, (C₁-C₃)alkyl, (C₁-C₃)alkoxy, halo(C₁-C₃)alkyl, halo(C₁-C₃)alkoxy, cyclopropyl optionally substituted with one R^{2a}, cyclobutyl optionally substituted with one R^{2a}, cyclopentyl optionally substituted with one R^{2a} , (C₃-C₆)cycloalkyl-(C₁-C₃)alkoxy, 4,5-dihydrofuran-3-yl, 7-azabicyclo[2.2.1]heptan-7-yl, 3-azabicyclo[2.2.1]heptan-3-yl, tetrahydrofuran-yl, tetrahydropyranyl or azetidiny optionally substituted with one or two R^{2d} or phenyl.
- 20 32. The compound according to any one of claims 1 to 31, wherein R² is halogen, (C₁-C₃)alkyl, (C₁-C₃)alkoxy, halo(C₁-C₃)alkyl, halo(C₁-C₃)alkoxy, cyclopropyl optionally substituted by halogen or (C₁-C₃)alkyl, cyclobutyl, cyclopentyl, cyclopropyloxy, 4,5-dihydrofuran-3-yl, 7-azabicyclo[2.2.1]heptan-7-yl, 3-azabicyclo[2.2.1]heptan-3-yl, tetrahydrofuran-yl, tetrahydropyranyl or azetidiny optionally substituted by one or two (C₁-C₃)alkyl.
- 25 33. The compound according to any one of claims 1 to 32, wherein R² is (halo(C₁-C₃)alkyl, halo(C₁-C₃)alkoxy or cyclopropyl optionally substituted by halogen or (C₁-C₃)alkyl,.
- 30

34. The compound according to any one of claims 1 to 33, wherein R^2 is trifluoromethyl, difluoromethoxy, trifluoromethoxy or cyclopropyl.
35. The compound according to any one of claims 1 to 33, wherein R^{2a} , R^{2b} , R^{2c} , R^{2d} and R^{2e} are each independently selected from halogen and (C_1-C_6) alkyl.
- 5 36. The compound according to any one of claims 1 to 35, wherein R^{2a} , R^{2b} , R^{2c} , R^{2d} and R^{2e} are each independently selected from halogen and (C_1-C_3) alkyl.
37. The compound according to any one of claims 1 to 36, wherein R^{2a} , R^{2b} , R^{2c} , R^{2d} and R^{2e} are each independently selected from chloro, fluoro and methyl.
38. The compound according to any one of claims 1 to 33, wherein R^{2f} and R^{2g} are each
10 independently selected from hydrogen or (C_1-C_3) alkyl, particularly wherein one of R^{2f} and R^{2g} is hydrogen while the other is (C_1-C_3) alkyl.
39. The compound according to any one of claims 1 to 37, wherein R^3 is hydrogen, halogen or cyano.
40. The compound according to any one of claims 1 to 39, wherein R^3 is hydrogen, chloro,
15 fluoro or cyano.
41. The compound according to any one of claims 1 to 40, wherein R^3 is hydrogen.
42. The compound according to any one of claims 1 to 37, wherein R^{3a} , R^{3b} , R^{3c} , R^{3d} and R^{3e} are each independently selected from halogen and (C_1-C_3) alkyl.
43. The compound according to any one of claims 1 to 41, R^4 is hydrogen, cyano, halogen,
20 (C_1-C_6) alkyl, (C_1-C_6) alkoxy or $-CONR^{4b}R^{4c}$.
44. The compound according to any one of claims 1 to 43, wherein R^4 is hydrogen, cyano, chloro, fluoro or (C_1-C_3) alkyl.
45. The compound according to any one of claims 1 to 44, wherein R^4 is hydrogen.
46. The compound according to any one of claims 1 to 43, wherein R^{4b} or R^{4c} are hydrogen.
- 25 47. The compound according to any one of claims 1 to 46, wherein, wherein R^5 is $-NH_2$.
48. The compound according to any one of claims 1 to 47, selected from the group consisting of:

4-amino-7-cyclopropyl-1-(o-tolyl)pyrido[2,3-d]pyrimidin-2(1H)-one

4-amino-7-cyclopropyl-1-(2-methoxyphenyl)pyrido[2,3-d]pyrimidin-2(1H)-one

4-amino-7-(tert-butyl)-1-(o-tolyl)pyrido[2,3-d]pyrimidin-2(1H)-one

4-amino-1-(2-methoxyphenyl)-7-phenylpyrido[2,3-d]pyrimidin-2(1H)-one

4-amino-7-(3,3-difluoroazetidin-1-yl)-1-(o-tolyl)pyrido[2,3-d]pyrimidin-2(1H)-one

4-amino-7-cyclopropyl-1-(tetrahydrofuran-3-yl)pyrido[2,3-d]pyrimidin-2(1H)-one

4-amino-7-cyclopropyl-1-(2-methylpyridin-3-yl)pyrido[2,3-d]pyrimidin-2(1H)-one

4-amino-7-cyclopropyl-1-(2-oxopiperidin-4-yl)pyrido[2,3-d]pyrimidin-2(1H)-one
4-amino-7-cyclopropyl-1-((cis)-2-methyltetrahydrofuran-3-yl)pyrido[2,3-d]pyrimidin-2(1H)-one
4-amino-7-cyclopropyl-1-(o-tolyl)pyrido[4,3-d]pyrimidin-2(1H)-one
4-amino-7-cyclopropyl-1-(2-methylpyridin-3-yl)quinazolin-2-one
4-amino-7-cyclopropyl-1-(2-methylphenyl)quinazolin-2-one
7-cyclopropyl-1-(2-methylphenyl)quinazoline-2,4-dione
4-amino-7-cyclopropyl-1-(o-tolyl)pyrimido[4,5-d]pyrimidin-2(1H)-one
7-cyclopropyl-1-(2-methylpyridin-3-yl)quinazoline-2,4-dione
4-amino-7-cyclopropyl-1-(2-methoxypyridin-3-yl)pyrido[2,3-d]pyrimidin-2(1H)-one
4-amino-7-cyclopropyl-6-fluoro-1-(2-methylpyridin-3-yl)pyrido[2,3-d]pyrimidin-2(1H)-one
7-cyclopropyl-1-(2-methylphenyl)pyrido[2,3-d]pyrimidine-2,4-dione
3-(4-amino-7-cyclopropyl-2-oxopyrido[2,3-d]pyrimidin-1(2H)-yl)picolinonitrile
4-amino-7-cyclopropyl-1-(oxan-3-yl)pyrido[2,3-d]pyrimidin-2-one
4-amino-7-cyclopropyl-1-[1-(oxolan-3-yl)ethyl]pyrido[2,3-d]pyrimidin-2-one
4-amino-7-cyclopropyl-1-(3-fluoro-2-methoxyphenyl)pyrido[2,3-d]pyrimidin-2(1H)-one
3-(4-amino-7-cyclopropyl-2-oxopyrido[2,3-d]pyrimidin-1(2H)-yl)-2-methylbenzonitrile
4-amino-1-(2-methylpyridin-3-yl)-7-propan-2-ylpyrido[2,3-d]pyrimidin-2-one
4-amino-7-cyclopropyl-1-(2,3-dihydrobenzofuran-4-yl)pyrido[2,3-d]pyrimidin-2(1H)-one
4-amino-6-chloro-7-cyclopropyl-1-(2-methylpyridin-3-yl)pyrido[2,3-d]pyrimidin-2(1H)-one
3-(4-amino-7-cyclopropyl-2-oxopyrido[2,3-d]pyrimidin-1(2H)-yl)-2-methoxybenzonitrile
3-(4-amino-7-cyclopropyl-2-oxopyrido[2,3-d]pyrimidin-1(2H)-yl)-2-ethoxybenzonitrile
4-amino-7-cyclopropyl-1-(1-(tetrahydrofuran-2-yl)ethyl)pyrido[2,3-d]pyrimidin-2(1H)-one
4-amino-1-(2-methylpyridin-3-yl)-7-(oxetan-3-yl)quinazolin-2(1H)-one
7-cyclopropyl-1-(2-methylpyridin-3-yl)pyrido[2,3-d]pyrimidine-2,4-dione
4-amino-7-((1RS,2RS)-2-methylcyclopropyl)-1-(2-methylpyridin-3-yl)pyrido[2,3-d]pyrimidin-2(1H)-one
4-amino-7-cyclopentyl-1-(2-methyl-3-pyridyl)pyrido[2,3-d]pyrimidin-2-one
4-amino-7-cyclopropyl-1-((1SR,2RS)-2-hydroxycyclopentyl)pyrido[2,3-d]pyrimidin-2(1H)-one
4-amino-2-cyclopentyl-7-(o-tolyl)pyrazolo[3,4-d]pyrimidin-6-one; formic acid
4-amino-7-cyclopentyl-1-(4-methylpyrimidin-5-yl)pyrido[2,3-d]pyrimidin-2-one
4-amino-7-cyclopropyl-1-(3-fluoro-2-methylphenyl)pyrido[2,3-d]pyrimidin-2(1H)-one
4-amino-7-cyclopropyl-1-[(3R)-oxan-3-yl]pyrido[2,3-d]pyrimidin-2-one
4-amino-7-cyclopropyl-1-[(3S)-oxan-3-yl]pyrido[2,3-d]pyrimidin-2-one

4-amino-7-cyclopropyl-1-(4-methyltetrahydrofuran-3-yl)pyrido[2,3-d]pyrimidin-2(1H)-one
4-amino-7-cyclopropyl-2-oxo-1-(o-tolyl)-1,2-dihydropyrido[2,3-d]pyrimidine-5-carboxamide
4-amino-1-(2-methoxy-3-pyridyl)-7-tetrahydropyran-2-yl-pyrido[2,3-d]pyrimidin-2-one
4-amino-7-[(1S,4R)-3-azabicyclo[2.2.1]heptan-3-yl]-1-(2-methylpyrazol-3-yl)pyrido[2,3-d]pyrimidin-2-one; formic acid
4-amino-1-(2-methylpyridin-3-yl)-7-(trifluoromethyl)quinazolin-2-one
4-amino-7-cyclopropyl-1-[rac-(2R,3S)-2-methyloxolan-3-yl]pyrido[2,3-d]pyrimidin-2-one
4-amino-7-cyclobutyl-1-(2-methyl-3-pyridyl)pyrido[2,3-d]pyrimidin-2-one; formic acid
4-amino-7-cyclopropyloxy-1-(2-methylpyridin-3-yl)quinazolin-2-one
4-amino-1-(2-methylpyridin-3-yl)-7-(trifluoromethyl)pyrido[2,3-d]pyrimidin-2(1H)-one
4-amino-7-(7-azabicyclo[2.2.1]heptan-7-yl)-1-(4-methylthiazol-5-yl)pyrido[2,3-d]pyrimidin-2-one; formic acid
4-amino-7-cyclopropyl-1-(3-hydroxycyclopentyl)pyrido[2,3-d]pyrimidin-2(1H)-one
4-amino-7-(difluoromethoxy)-1-(2-methylpyridin-3-yl)quinazolin-2(1H)-one
4-amino-7-(difluoromethyl)-1-(2-methylpyridin-3-yl)quinazolin-2(1H)-one
4-amino-7-[(1R,2S)-2-fluorocyclopropyl]-1-(2-methyl-3-pyridyl)pyrido[2,3-d]pyrimidin-2-one
4-amino-7-cyclopropyl-1-(2-methylpyridin-3-yl)-2-oxo-1,2-dihydropyrido[2,3-d]pyrimidine-6-carbonitrile
3-(4-amino-7-isopropyl-2-oxopyrido[2,3-d]pyrimidin-1(2H)-yl)-2-methoxybenzonitrile
4-amino-7-cyclopropyl-2-oxo-1-(o-tolyl)-1,2-dihydropyrido[2,3-d]pyrimidine-5-carbonitrile
4-amino-7-methoxy-1-(2-methylpyridin-3-yl)quinazolin-2(1H)-one
4-amino-1-(2-methylpyridin-3-yl)-7-(trifluoromethoxy)quinazolin-2(1H)-one
4-amino-7-(4,5-dihydrofuran-3-yl)-1-(2-methylpyridin-3-yl)pyrido[2,3-d]pyrimidin-2(1H)-one
4-amino-1-(2-methylpyridin-3-yl)-7-(tetrahydrofuran-3-yl)pyrido[2,3-d]pyrimidin-2(1H)-one
4-amino-7-cyclopropyl-1-(2-methylpyridin-3-yl)pyrido[2,3-d]pyrimidin-2-one
4-amino-7-cyclopropyl-1-(2-methylpyridin-3-yl)pyrido[2,3-d]pyrimidin-2-one
4-amino-7-cyclopropyl-1-(4-methylthiazol-5-yl)pyrido[2,3-d]pyrimidin-2-one
4-amino-7-cyclopropyl-1-(4-methylpyrimidin-5-yl)pyrido[2,3-d]pyrimidin-2(1H)-one
4-amino-7-cyclopropyl-1-(2-(trifluoromethyl)pyridin-3-yl)pyrido[2,3-d]pyrimidin-2(1H)-one
4-amino-7-cyclopropyl-1-(2-methylpyrazol-3-yl)pyrido[2,3-d]pyrimidin-2-one
4-amino-7-cyclopropyl-1-(2,3-dihydrobenzofuran-4-yl)quinazolin-2(1H)-one
(R)-4-amino-1-(tetrahydro-2H-pyran-3-yl)-7-(trifluoromethyl)quinazolin-2(1H)-one
4-amino-7-cyclopropyl-1-(4-methylpyridin-3-yl)pyrido[2,3-d]pyrimidin-2(1H)-one
4-amino-7-ethyl-1-(2-methylpyridin-3-yl)quinazolin-2(1H)-one

4-amino-7-[(1S,2R)-2-fluorocyclopropyl]-1-[(3R)-tetrahydropyran-3-yl]pyrido[2,3-d]pyrimidin-2-one

4-amino-7-cyclopropyl-1-(4-methyloxazol-5-yl)pyrido[2,3-d]pyrimidin-2-one

3-(4-amino-6-chloro-7-isopropyl-2-oxopyrido[2,3-d]pyrimidin-1(2H)-yl)-2-methoxybenzonitrile

4-amino-7-cyclopropyl-1-((R)-1-((S)-tetrahydrofuran-3-yl)ethyl)pyrido[2,3-d]pyrimidin-2(1H)-one

4-amino-7-cyclopropyl-1-((R)-1-((R)-tetrahydrofuran-3-yl)ethyl)pyrido[2,3-d]pyrimidin-2(1H)-one

4-amino-7-(2-fluoropropan-2-yl)-1-(2-methylpyridin-3-yl)quinazolin-2-one

4-amino-5-methoxy-1-(2-methylpyridin-3-yl)-7-(trifluoromethyl)quinazolin-2(1H)-one

4-amino-7-cyclopropyl-1-(4-fluoro-2-methoxypyridin-3-yl)pyrido[2,3-d]pyrimidin-2(1H)-one

4-amino-5-fluoro-1-(2-methylpyridin-3-yl)-7-(trifluoromethyl)quinazolin-2(1H)-one

4-amino-7-cyclopropyl-1-(1-ethyl-1H-pyrazol-5-yl)pyrido[2,3-d]pyrimidin-2(1H)-one

4-amino-7-chloro-1-(o-tolyl)pyrido[2,3-d]pyrimidin-2(1H)-one

4-amino-7-cyclopropyl-1-(2,3-dihydrobenzofuran-7-yl)pyrido[2,3-d]pyrimidin-2(1H)-one

1-amino-4-(2-methoxyphenyl)-6-(trifluoromethyl)-3H-pyrido[1,2-c]pyrimidin-3-one

4-amino-1-(2-chlorophenyl)-7-cyclopropylpyrido[2,3-d]pyrimidin-2-one

4-amino-7-cyclopropyl-1-[(1R)-1-[(3S)-oxolan-3-yl]ethyl]pyrido[2,3-d]pyrimidin-2-one

4-amino-7-cyclopropyl-1-[(1R)-1-[(3R)-oxolan-3-yl]ethyl]pyrido[2,3-d]pyrimidin-2-one

3-(4-amino-6-chloro-7-cyclopropyl-2-oxopyrido[2,3-d]pyrimidin-1(2H)-yl)-2-methoxybenzonitrile

4-amino-7-cyclopropyl-1-(4-oxaspiro[2.5]octan-8-yl)pyrido[2,3-d]pyrimidin-2(1H)-one

4-amino-6-chloro-7-cyclopropyl-1-(2-methoxypyridin-3-yl)pyrido[2,3-d]pyrimidin-2(1H)-one

4-amino-7-cyclopropyl-1-(4-fluoro-2-methylphenyl)pyrido[2,3-d]pyrimidin-2-one

4-amino-7-cyclopropyl-1-(3-ethylphenyl)pyrido[2,3-d]pyrimidin-2(1H)-one

4-amino-7-cyclopropyl-1-(m-tolyl)pyrido[2,3-d]pyrimidin-2(1H)-one

4-amino-7-cyclopropyl-1-(3,5-difluorophenyl)pyrido[2,3-d]pyrimidin-2(1H)-one

4-amino-7-cyclopropyl-1-(6-methoxypyridin-2-yl)pyrido[2,3-d]pyrimidin-2(1H)-one

4-amino-7-cyclopropyl-1-(3-methoxyphenyl)pyrido[2,3-d]pyrimidin-2(1H)-one

4-amino-7-cyclopropyl-1-(2,3-difluorophenyl)pyrido[2,3-d]pyrimidin-2(1H)-one

4-amino-7-cyclopropyl-1-phenylpyrido[2,3-d]pyrimidin-2(1H)-one

4-amino-7-cyclopropyl-1-(1-(oxazol-5-yl)ethyl)pyrido[2,3-d]pyrimidin-2(1H)-one

3-(4-amino-2-oxo-7-(trifluoromethyl)quinazolin-1(2H)-yl)-2-methylbenzonitrile

3-(4-amino-2-oxo-7-(trifluoromethyl)pyrido[2,3-d]pyrimidin-1(2H)-yl)-2-methylbenzonitrile
4-amino-7-cyclopropyl-1-(2,6-difluorophenyl)pyrido[2,3-d]pyrimidin-2(1H)-one
4-amino-7-cyclopropyl-1-(2-fluorophenyl)pyrido[2,3-d]pyrimidin-2(1H)-one
4-amino-7-cyclopropyl-1-(3-fluorophenyl)pyrido[2,3-d]pyrimidin-2(1H)-one
4-amino-7-cyclopropyl-1-[1-(oxetan-3-yl)ethyl]pyrido[2,3-d]pyrimidin-2-one
4-amino-7-(difluoromethoxy)-1-(2-methylphenyl)pyrido[2,3-d]pyrimidin-2-one
4-amino-7-cyclopropyl-1-(1-pyridin-2-ylethyl)pyrido[2,3-d]pyrimidin-2-one
4-amino-1-(2-methyl-3-pyridyl)-7-(2,2,2-trifluoroethyl)quinazolin-2-one hydrochloride
4-amino-7-cyclopropyl-1-(tetrahydro-2H-pyran-4-yl)pyrido[2,3-d]pyrimidin-2(1H)-one
4-amino-1-(2-chloropyridin-3-yl)-7-cyclopropylpyrido[2,3-d]pyrimidin-2(1H)-one
4-amino-2-cyclopentyl-7-(2-methyl-3-pyridyl)pyrazolo[3,4-d]pyrimidin-6-one
4-amino-5-chloro-1-(2-methylpyridin-3-yl)-7-(trifluoromethyl)quinazolin-2(1H)-one
4-amino-1-(3-fluoro-2-methylphenyl)-7-(trifluoromethyl)pyrido[2,3-d]pyrimidin-2(1H)-one
4-amino-7-cyclopropyl-1-(1H-indol-4-yl)pyrido[2,3-d]pyrimidin-2-one
4-amino-7-cyclopropyl-1-[6-(trifluoromethoxy)pyridin-2-yl]pyrido[2,3-d]pyrimidin-2-one
4-amino-1-(2,3-dihydrobenzofuran-4-yl)-7-(trifluoromethyl)pyrido[2,3-d]pyrimidin-2(1H)-one
4-amino-1-(3-chloro-2-fluorophenyl)-7-cyclopropylpyrido[2,3-d]pyrimidin-2-one
4-amino-1-(2,3-dihydro-1-benzofuran-4-yl)-7-(trifluoromethoxy)quinazolin-2-one
4-amino-1-(3-fluoro-2-methylphenyl)-7-(trifluoromethoxy)quinazolin-2-one
3-[4-amino-2-oxo-7-(trifluoromethoxy)quinazolin-1-yl]-2-methylbenzonitrile
4-amino-7-cyclopropyl-1-(2,3-dihydro-1H-indol-4-yl)pyrido[2,3-d]pyrimidin-2-one
4-amino-1-(2-chloro-5-fluorophenyl)-7-cyclopropylpyrido[2,3-d]pyrimidin-2-one
4-amino-1-(2-chloro-4-fluorophenyl)-7-cyclopropylpyrido[2,3-d]pyrimidin-2(1H)-one
4-amino-7-cyclopropyl-1-(2,5-difluorophenyl)pyrido[2,3-d]pyrimidin-2(1H)-one
4-amino-7-(ethylamino)-1-(o-tolyl)quinazolin-2-one
4-amino-1-(3-chlorophenyl)-7-cyclopropylpyrido[2,3-d]pyrimidin-2(1H)-one
3-(4-amino-7-cyclopropyl-2-oxopyrido[2,3-d]pyrimidin-1(2H)-yl)benzonitrile
4-amino-7-(difluoromethoxy)-1-(4-oxaspiro[2.5]octan-8-yl)quinazolin-2(1H)-one
1-amino-4-(2-chlorophenyl)-6-(trifluoromethyl)pyrido[1,2-c]pyrimidin-3-one
4-amino-1-(benzo[d]oxazol-4-yl)-7-cyclopropylpyrido[2,3-d]pyrimidin-2(1H)-one
4-amino-7-cyclopropyl-1-(3,4-difluorophenyl)pyrido[2,3-d]pyrimidin-2(1H)-one
3-(4-amino-7-cyclopropyl-2-oxopyrido[2,3-d]pyrimidin-1(2H)-yl)-2-methylbenzonitrile
3-(4-amino-7-cyclopropyl-2-oxopyrido[2,3-d]pyrimidin-1(2H)-yl)-2-methylbenzonitrile
4-amino-7-(difluoromethoxy)-1-(o-tolyl)quinazolin-2(1H)-one
3-(4-amino-7-cyclopropyl-2-oxopyrido[2,3-d]pyrimidin-1(2H)-yl)-2-chlorobenzonitrile
4-amino-7-cyclopropyl-1-[(8S)-4-oxaspiro[2.5]octan-8-yl]pyrido[2,3-d]pyrimidin-2-one
4-amino-7-cyclopropyl-1-[(8R)-4-oxaspiro[2.5]octan-8-yl]pyrido[2,3-d]pyrimidin-2-one
4-amino-1-(1H-benzo[d]imidazol-4-yl)-7-cyclopropylpyrido[2,3-d]pyrimidin-2(1H)-one
4-amino-7-cyclopropyl-1-(1H-indazol-4-yl)pyrido[2,3-d]pyrimidin-2(1H)-one

4-amino-7-cyclopropyl-1-(2,3-dimethylphenyl)pyrido[2,3-d]pyrimidin-2(1H)-one
4-amino-1-(2-chloropyridin-3-yl)-7-(difluoromethoxy)quinazolin-2(1H)-one
4-amino-1-(2-chloropyridin-3-yl)-7-cyclopropylpyrido[2,3-d]pyrimidin-2(1H)-one
4-amino-1-(2-chloropyridin-3-yl)-7-cyclopropylpyrido[2,3-d]pyrimidin-2(1H)-one
4-amino-7-(difluoromethoxy)-1-(m-tolyl)quinazolin-2(1H)-one
4-amino-7-(difluoromethoxy)-1-(2-fluoro-3-methylphenyl)quinazolin-2(1H)-one
4-amino-7-cyclopropyl-1-(2-(trifluoromethyl)phenyl)pyrido[2,3-d]pyrimidin-2(1H)-one
4-amino-7-cyclopropyl-1-(3-(fluoromethyl)-2-methylphenyl)pyrido[2,3-d]pyrimidin-2(1H)-one
4-amino-1-(2-chloro-3-methylphenyl)-7-cyclopropylpyrido[2,3-d]pyrimidin-2-one
4-amino-1-(3-chloro-2-methylphenyl)-7-cyclopropylpyrido[2,3-d]pyrimidin-2-one
4-amino-7-cyclopropyl-1-(2,3-dichlorophenyl)pyrido[2,3-d]pyrimidin-2(1H)-one
4-amino-7-cyclopropyl-1-(2-fluoro-3-methylphenyl)pyrido[2,3-d]pyrimidin-2(1H)-one
3-(4-amino-7-cyclopropyl-2-oxopyrido[2,3-d]pyrimidin-1(2H)-yl)-2-fluorobenzonitrile
(S)-4-amino-7-cyclopropyl-1-(oxepan-3-yl)pyrido[2,3-d]pyrimidin-2(1H)-one
(R)-4-amino-7-cyclopropyl-1-(oxepan-3-yl)pyrido[2,3-d]pyrimidin-2(1H)-one
4-amino-7-cyclopropyl-1-(3-hydroxy-2-methylphenyl)pyrido[2,3-d]pyrimidin-2(1H)-one
4-amino-7-(difluoromethoxy)-1-(3-fluoro-2-methylphenyl)quinazolin-2(1H)-one
4-amino-7-cyclopropyl-1-[rac-(2S,3S)-2-methyltetrahydropyran-3-yl]pyrido[2,3-d]pyrimidin-2-one
4-amino-1-(benzo[d]thiazol-7-yl)-7-cyclopropylpyrido[2,3-d]pyrimidin-2(1H)-one
4-amino-7-cyclopropyl-1-((2S,3R)-2-methyltetrahydro-2H-pyran-3-yl)pyrido[2,3-d]pyrimidin-2(1H)-one
4-amino-7-cyclopropyl-1-((2R,3S)-2-methyltetrahydro-2H-pyran-3-yl)pyrido[2,3-d]pyrimidin-2(1H)-one
(-)-4-amino-1-(2-chloro-3-fluorophenyl)-7-cyclopropylpyrido[2,3-d]pyrimidin-2(1H)-one
(+)-4-amino-1-(2-chloro-3-fluorophenyl)-7-cyclopropylpyrido[2,3-d]pyrimidin-2(1H)-one
(-)-4-amino-1-(2-chlorophenyl)-7-cyclopropylpyrido[2,3-d]pyrimidin-2(1H)-one
(+)-4-amino-1-(2-chlorophenyl)-7-cyclopropylpyrido[2,3-d]pyrimidin-2(1H)-one
4-amino-7-cyclopropyl-6-(difluoromethoxy)-1-(o-tolyl)pyrido[2,3-d]pyrimidin-2-one
4-amino-7-cyclopropyl-1-(6,7-dihydro-5H-pyrrolo[1,2-c]imidazol-7-yl)pyrido[2,3-d]pyrimidin-2-one;formic acid
4-(2-chlorophenyl)-6-cyclopropyl-1-imino-pyrido[1,2-c]pyrimidin-3-one;formic acid
4-amino-7-cyclopropyl-1-[2-(trifluoromethoxy)phenyl]pyrido[2,3-d]pyrimidin-2-one
4-amino-1-(2-chloro-3-pyridyl)-7-(trifluoromethoxy)quinazolin-2-one
4-amino-7-cyclopropyl-1-(6-(difluoromethoxy)pyridin-2-yl)pyrido[2,3-d]pyrimidin-2(1H)-one
4-amino-7-cyclopropyl-1-(1,4-dioxepan-6-yl)pyrido[2,3-d]pyrimidin-2-one
4-amino-7-cyclopropyl-1-(3-fluoro-2-methylphenyl)quinazolin-2-one

49. The compound according to any one of claims 1 to 47, selected from the group consisting of:

4-amino-7-cyclopropyl-1-(o-tolyl)pyrido[2,3-d]pyrimidin-2(1H)-one
4-amino-7-cyclopropyl-1-(2-methylpyridin-3-yl)pyrido[2,3-d]pyrimidin-2(1H)-one

3-(4-amino-7-cyclopropyl-2-oxopyrido[2,3-d]pyrimidin-1(2H)-yl)-2-methylbenzonitrile
4-amino-7-cyclopropyl-1-(2,3-dihydrobenzofuran-4-yl)pyrido[2,3-d]pyrimidin-2(1H)-one
4-amino-7-cyclopropyl-1-(3-fluoro-2-methylphenyl)pyrido[2,3-d]pyrimidin-2(1H)-one
4-amino-7-cyclopropyl-1-(oxan-3-yl)pyrido[2,3-d]pyrimidin-2-one
4-amino-7-(difluoromethoxy)-1-(2-methylpyridin-3-yl)quinazolin-2(1H)-one
4-amino-1-(2-methylpyridin-3-yl)-7-(trifluoromethoxy)quinazolin-2(1H)-one
4-amino-7-cyclopropyl-1-(2,3-dihydrobenzofuran-4-yl)quinazolin-2(1H)-one
4-amino-7-cyclopropyl-1-(2,3-dihydrobenzofuran-7-yl)pyrido[2,3-d]pyrimidin-2(1H)-one
4-amino-1-(2-chlorophenyl)-7-cyclopropylpyrido[2,3-d]pyrimidin-2-one
4-amino-7-cyclopropyl-1-(4-oxaspiro[2.5]octan-8-yl)pyrido[2,3-d]pyrimidin-2(1H)-one
4-amino-1-(2-chloropyridin-3-yl)-7-cyclopropylpyrido[2,3-d]pyrimidin-2(1H)-one
4-amino-7-(difluoromethoxy)-1-(2-methylphenyl)pyrido[2,3-d]pyrimidin-2-one
3-(4-amino-2-oxo-7-(trifluoromethyl)pyrido[2,3-d]pyrimidin-1(2H)-yl)-2-methylbenzonitrile
4-amino-7-cyclopropyl-1-(m-tolyl)pyrido[2,3-d]pyrimidin-2(1H)-one
4-amino-7-cyclopropyl-1-[(8S)-4-oxaspiro[2.5]octan-8-yl]pyrido[2,3-d]pyrimidin-2-one
4-amino-7-cyclopropyl-1-[(8R)-4-oxaspiro[2.5]octan-8-yl]pyrido[2,3-d]pyrimidin-2-one
(R)-4-amino-7-cyclopropyl-1-(oxepan-3-yl)pyrido[2,3-d]pyrimidin-2(1H)-one
4-amino-7-cyclopropyl-1-((2S,3R)-2-methyltetrahydro-2H-pyran-3-yl)pyrido[2,3-d]pyrimidin-2(1H)-one

50. A compound according to any one of claims 1 to 49 for use as a therapeutically active substance.

51. Pharmaceutical compositions comprising compounds of formula I or II according to any one of claims 1 to 49 or their pharmaceutically acceptable salts and one or more pharmaceutically acceptable excipients.

52. Compounds of formula I or II according to any one of claims 1 to 49 or their pharmaceutically acceptable salts above for use as therapeutically active substances.

53. Compounds of formula I or II according to any one of claims 1 to 49 or their pharmaceutically acceptable salts for the use in the treatment, prevention and/or delay of progression of Lung Adenocarcinoma, Melanoma, Pancreatic Adenocarcinoma, Head and Neck Squamous Cell Carcinoma, Lung Squamous Cell Carcinoma, Esophageal Carcinoma, Glioblastoma Multiforme, and Mesothelioma.

54. Compounds according to claim 53, for the use in the treatment, prevention and/or delay of progression of Lung Adenocarcinoma, Lung Squamous Carcinoma, Pancreatic Adenocarcinoma, Glioblastoma Multiforme, and Head and Neck Squamous Carcinoma.

55. A method for the treatment or prevention of Lung Aenocarcinoma, Melanoma, Pancreatic Adenocarcinoma, Head and Neck Squamous Cell Carcinoma, Lung Squamous Cell Carcinoma, Esophageal Carcinoma, Glioblastmoa Multiforme, and Mesothelioma, which method comprises administering compounds of formula I according to any one of claims 1 to 49 or their pharmaceutically acceptable salts as defined above to a subject.
56. A method according to claim 55 for the treatment or prevention of Lung Adenocarcinoma, Lung Squamous Carcinoma, Pancreatic Adenocarcinoma, Glioblastoma Multiforme, and Head and Neck Squamous Carcinoma.
57. The use of compounds of formula I according to any one of claims 1 to 49 or their pharmaceutically acceptable salts for the treatment, prevention and/or delay of progression of Lung Aenocarcinoma, Melanoma, Pancreatic Adenocarcinoma, Head and Neck Squamous Cell Carcinoma, Lung Squamous Cell Carcinoma, Esophageal Carcinoma, Glioblastmoa Multiforme, and Mesothelioma.
58. The use of compounds according to claim 57, for the treatment, prevention and/or delay of progression of Lung Adenocarcinoma, Lung Squamous Carcinoma, Pancreatic Adenocarcinoma, Glioblastoma Multiforme, and Head and Neck Squamous Carcinoma.
59. The use of compounds of formula I according to any one of claims 1 to 49 or their pharmaceutically acceptable salts for the preparation of medicaments for the treatment or prevention of Lung Aenocarcinoma, Melanoma, Pancreatic Adenocarcinoma, Head and Neck Squamous Cell Carcinoma, Lung Squamous Cell Carcinoma, Esophageal Carcinoma, Glioblastmoa Multiforme, and Mesothelioma.
60. The use of compounds according to claim 59, for the treatment, prevention and/or delay of progression of Lung Adenocarcinoma, Lung Squamous Carcinoma, Pancreatic Adenocarcinoma, Glioblastoma Multiforme, and Head and Neck Squamous Carcinoma.
61. The invention as hereinbefore described.