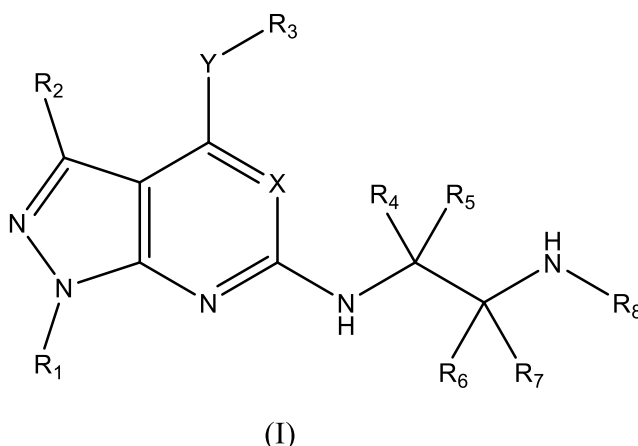


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SUMMARY-OF-THE-INVENTION

[0029a] In a first aspect, the present disclosure refers to a compound of the formula (I), or a pharmaceutically acceptable salt thereof.



wherein:

R₁ is selected from methyl, ethyl, CH₂F, CHF₂, cyclopropyl, and CH₂CN wherein one or more hydrogen atoms in methyl, ethyl, CH₂F, CHF₂, cyclopropyl, and CH₂CN may be replaced by deuterium;

R₂ is selected from hydrogen, C₁₋₂ alkyl, C₁₋₂haloalkyl, cyano, amino, halo, trifluoromethyl, trifluoromethoxy, hydroxy, carboxy, carbamoyl, sulphamoyl, NR_rR_s, OR_r, C(O)R_r, C(O)OR_r, OC(O)R_r, C(O)N(R_r)R_s, N(R_r)C(O)R_s, S(O)_aR_r (where a is 0, 1 or 2), SO₂N(R_r)R_s, N(R_r)SO₂R_s or (CH₂)_bNR_rR_s (where b is 1, 2 or 3), wherein R_r and R_s are each independently selected from hydrogen or C₁₋₂alkyl;

R₃ is a group of the formula:



wherein

L_{1a} is absent or C₁₋₃alkylene, C₃₋₄cycloalkylene, optionally substituted by one or more substituents selected from C₁₋₂alkyl, halo, hydroxy, amino or oxo;

5 L_{1b} is absent or selected from O, S, SO, SO₂, N(R_x), C(O), C(O)O, OC(O), C(O)N(R_x), N(R_x)C(O), N(R_x)C(O)N(R_y), S(O)₂N(R_x), or N(R_x)SO₂, wherein R_x and R_y are each independently selected from hydrogen or C₁₋₂alkyl; and

10 Q₁ is hydrogen, cyano, C₁₋₆alkyl, C₃₋₁₀carbocyclic, C₂₋₃alkenyl, C₂₋₃alkynyl, aryl, heterocyclyl or heteroaryl; wherein one or more hydrogen atoms in C₁₋₆alkyl may be replaced by deuterium; and wherein C₁₋₆alkyl, C₃₋₁₀carbocyclic, C₂₋₃alkenyl, C₂₋₃alkynyl, aryl, heterocyclyl or heteroaryl are optionally substituted by one or more substituents selected from C₁₋₄alkyl, halo, trifluoromethyl, trifluoromethoxy, amino, cyano, hydroxy, carboxy, carbamoyl, sulphamoyl, NR_tR_u, OR_t, C(O)R_t, C(O)OR_t, OC(O)R_t, C(O)N(R_t)R_u, N(R_t)C(O)R_u, S(O)_yR_t (where y is 0, 1 or 2), SO₂N(R_t)R_u, N(R_t)SO₂R_u or (CH₂)_zNR_tR_u (where z is 1, 2 or 3); wherein R_t and R_u are each independently selected
 15 from hydrogen or C₁₋₄alkyl wherein the C₁₋₄alkyl is optionally substituted with one or more halo substituents or -L_{1c}-L_{1d}-Z₁ as defined below; or

Q₁ is optionally substituted by one or more groups of the formula:



wherein

20 L_{1c} is absent, C₁₋₃alkylene or O-C₁₋₃alkylene, wherein C₁₋₃alkylene or O-C₁₋₃alkylene are optionally substituted by C₁₋₂alkyl or oxo;

L_{1d} is absent or selected from O, C(O), C(O)O, OC(O), C(O)N(R_m), N(R_m)C(O), N(R_m)C(O)N(R_n), S(O)₂N(R_m), S(O)₂, or N(R_m)SO₂, wherein R_m and R_n are each independently selected from hydrogen or C₁₋₂alkyl; and

25 Z₁ is cyano, C₁₋₆alkyl, C₃₋₁₀carbocyclic, C₂₋₃alkenyl, C₂₋₃alkynyl, aryl, heterocyclyl or heteroaryl; and wherein C₁₋₆alkyl, C₃₋₁₀carbocyclic, C₂₋₃alkenyl, C₂₋₃alkynyl, aryl, heterocyclyl or heteroaryl are optionally substituted by one or more substituents selected from C₁₋₄alkyl, C₂₋₄alkynyl, halo, trifluoromethyl, trifluoromethoxy, amino, cyano, hydroxy, carboxy, carbamoyl, sulphamoyl, NR_vR_w, OR_v, C(O)R_v, C(O)OR_v, OC(O)R_v, C(O)N(R_v)R_w, N(R_v)C(O)R_w, S(O)_xR_v (where x is 0, 1 or 2), SO₂N(R_v)R_w, N(R_v)SO₂R_w or (CH₂)_sNR_vR_w (where s is 1, 2 or 3), wherein R_v and R_w are each
 30 independently selected from hydrogen or C₁₋₄alkyl;

R₄ is hydrogen;

R₅ is selected from hydrogen and C₁₋₄alkyl;

R₆ is selected from hydrogen and C₁₋₄ alkyl;

R₇ is selected from hydrogen, C₁₋₄alkyl, C₃₋₆cycloalkyl, heterocyclyl, heteroaryl and aryl,

- 5 wherein C₁₋₄alkyl, C₃₋₆cycloalkyl, heterocyclyl, heteroaryl or aryl is optionally substituted with
one or more substituents selected from C₁₋₄alkyl, C₂₋₃alkenyl, C₂₋₃alkynyl, halo,
trifluoromethyl, trifluoromethoxy, amino, cyano, hydroxy, carboxy, carbamoyl, sulphamoyl,
NR_pR_q, OR_p, C(O)R_p, C(O)OR_p, OC(O)R_p, C(O)N(R_p)R_q, N(R_p)C(O)R_q, S(O)_jR_p (where j is 0,
1 or 2), SO₂N(R_p)R_q, N(R_p)SO₂R_q or (CH₂)_kNR_pR_q (where k is 1, 2 or 3), wherein R_p and R_q
 10 are each independently selected from hydrogen or C₁₋₄alkyl;

R₈ is selected from hydrogen or C₁₋₄alkyl;

or R₆ and R₇ may be linked together to form a 3-, 4-, 5-, or 6-membered carbocyclic or
heterocyclic ring system, wherein the 3-, 4-, 5-, or 6-membered carbocyclic or heterocyclic
ring system is optionally substituted with one or more substituents selected from C₁₋₂alkyl,

- 15 C₁₋₂alkoxy, C₁₋₂haloalkyl, halo, and cyano;

or R₅ and R₇ may be linked together to form a 5- or 6-membered carbocyclic or heterocyclic
ring system wherein the 5- or 6-membered carbocyclic or heterocyclic ring system is
optionally substituted with one or more substituents selected from C₁₋₂alkyl, C₁₋₂alkoxy, C₁₋
2haloalkyl, halo, and cyano;

- 20 or R₇ and R₈ may be linked together to form a 4-, 5-, 6- or 7-membered heterocyclic ring
system wherein the 4-, 5-, 6- or 7-membered heterocyclic ring system is optionally substituted
with one or more substituents selected from C₁₋₂alkyl, C₁₋₂alkoxy, C₁₋₂haloalkyl, halo, and
cyano;

X is selected from N and CR₉;

- 25 R₉ is selected from hydrogen, methyl, and fluoro;

Y is selected from O and NR₁₀; and

R₁₀ is selected from hydrogen and C₁₋₄alkyl;

or R₃ and R₁₀ may be linked together to form a 4-, 5-, 6- or 7- membered heterocyclic ring
system.

- 30 **[0029b]** In another aspect, the present disclosure refers to a compound, or a
pharmaceutically acceptable salt thereof, selected from any one of the following:

N6-(2-Aminoethyl)-1-methyl-N4-[4-(trifluoromethyl)phenyl]pyrazolo[3,4-d]pyrimidine-4,6-diamine;

N6-(2-aminoethyl)-1-methyl-N4-[3-(trifluoromethyl)phenyl]-1H-pyrazolo[3,4-d]pyrimidine-4,6-diamine;

5 N6-(2-aminoethyl)-1-methyl-N4-(4-phenoxyphenyl)-1H-pyrazolo[3,4-d]pyrimidine-4,6-diamine;

N6-(2-aminoethyl)-1-methyl-N4-(3-phenoxyphenyl)-1H-pyrazolo[3,4-d]pyrimidine-4,6-diamine;

10 N6-(2-aminoethyl)-1-methyl-N4-[(4-phenylphenyl)methyl]pyrazolo[3,4-d]pyrimidine-4,6-diamine;

N6-(2-aminoethyl)-N4-[1-(3-chloro-4-methoxyphenyl)ethyl]-1-methyl-1H-pyrazolo[3,4-d]pyrimidine-4,6-diamine;

N6-(2-aminoethyl)-N4-[2-(6-methoxypyridin-3-yl)ethyl]-1-methyl-1H-pyrazolo[3,4-d]pyrimidine-4,6-diamine;

15 N6-(2-aminoethyl)-N4-[2-(3-chloro-4-methoxyphenyl)ethyl]-1-methyl-1H-pyrazolo[3,4-d]pyrimidine-4,6-diamine;

N6-(2-aminoethyl)-N4-[2-(2H-1,3-benzodioxol-5-yl)ethyl]-1-methyl-1H-pyrazolo[3,4-d]pyrimidine-4,6-diamine;

20 N6-(2-aminoethyl)-N4-[(1-benzofuran-5-yl)methyl]-1-methyl-1H-pyrazolo[3,4-d]pyrimidine-4,6-diamine;

N6-(2-aminoethyl)-N4-{3'-methoxy-[1,1'-biphenyl]-3-yl}-1-methyl-1H-pyrazolo[3,4-d]pyrimidine-4,6-diamine;

N6-(2-aminoethyl)-N4-{[1-(benzenesulfonyl)piperidin-4-yl]methyl}-1-methyl-1H-pyrazolo[3,4-d]pyrimidine-4,6-diamine;

25 N6-(2-aminoethyl)-N4-[(1H-1,3-benzodiazol-5-yl)methyl]-1-methyl-1H-pyrazolo[3,4-d]pyrimidine-4,6-diamine;

N6-(2-aminoethyl)-N4-{3'-methoxy-[1,1'-biphenyl]-4-yl}-1-methyl-1H-pyrazolo[3,4-d]pyrimidine-4,6-diamine;

30 N6-(2-aminoethyl)-N4-{4'-methoxy-[1,1'-biphenyl]-3-yl}-1-methyl-1H-pyrazolo[3,4-d]pyrimidine-4,6-diamine;

N6-(2-aminoethyl)-N4-{[1,1'-biphenyl]-3-yl}-1-methyl-1H-pyrazolo[3,4-d]pyrimidine-4,6-diamine;

N6-(2-aminoethyl)-N4-[(3-chloro-4-fluorophenyl)methyl]-1-methyl-1H-pyrazolo[3,4-d]pyrimidine-4,6-diamine;

35 N6-(2-aminoethyl)-N4-[(4-chloro-2-fluorophenyl)methyl]-1-methyl-1H-pyrazolo[3,4-d]pyrimidine-4,6-diamine;

- N6-(2-aminoethyl)-N4-[(2,4-difluorophenyl)methyl]-1-methyl-1H-pyrazolo[3,4-d]pyrimidine-4,6-diamine;
- N6-(2-aminoethyl)-N4-[(3-chloro-5-methoxyphenyl)methyl]-1-methyl-1H-pyrazolo[3,4-d]pyrimidine-4,6-diamine;
- 5 N6-(2-aminoethyl)-N4-(3-chloro-4-methoxyphenyl)-1-methyl-1H-pyrazolo[3,4-d]pyrimidine-4,6-diamine;
- N6-(2-aminoethyl)-N4-[(3-chloro-4-methylphenyl)methyl]-1-methyl-1H-pyrazolo[3,4-d]pyrimidine-4,6-diamine;
- 10 N6-(2-aminoethyl)-1-methyl-N4-{[3-(trifluoromethyl)phenyl]methyl}-1H-pyrazolo[3,4-d]pyrimidine-4,6-diamine;
- N6-(2-aminoethyl)-N4-[(2,4-dimethoxyphenyl)methyl]-1-methyl-1H-pyrazolo[3,4-d]pyrimidine-4,6-diamine;
- N6-(2-aminoethyl)-N4-[(3-chloro-4-methoxyphenyl)methyl]-1-methyl-1H-pyrazolo[3,4-d]pyrimidine-4,6-diamine;
- 15 N6-(2-amino-2-methylpropyl)-N4-[(3-chloro-4-methoxyphenyl)methyl]-1-methyl-1H-pyrazolo[3,4-d]pyrimidine-4,6-diamine;
- N6-(2-amino-2-methylpropyl)-N4-[(4-methoxyphenyl)methyl]-1-methyl-1H-pyrazolo[3,4-d]pyrimidine-4,6-diamine;
- N6-(2-amino-2-methylpropyl)-N4-([1,1'-biphenyl]-4-yl)methyl)-1-methyl-1H-pyrazolo[3,4-d]pyrimidine-4,6-diamine;
- 20 N6-(2-aminoethyl)-N4-[(3-chloro-4-methoxyphenyl)methyl]-1,3-dimethyl-1H-pyrazolo[3,4-d]pyrimidine-4,6-diamine;
- N6-(2-amino-2-methylpropyl)-N4-[(3-chloro-4-methoxyphenyl)methyl]-1,3-dimethyl-1H-pyrazolo[3,4-d]pyrimidine-4,6-diamine;
- 25 N6-(2-amino-2-methylpropyl)-N4-([1,1'-biphenyl]-4-yl)methyl)-1,3-dimethyl-1H-pyrazolo[3,4-d]pyrimidine-4,6-diamine;
- N6-[(1-aminocyclohexyl)methyl]-1-methyl-N4-[4-(trifluoromethyl)phenyl]pyrazolo[3,4-d]pyrimidine-4,6-diamine;
- N6-(2-amino-2-methylpropyl)-1,3-dimethyl-N4-[3-(trifluoromethyl)phenyl]-1H-pyrazolo[3,4-d]pyrimidine-4,6-diamine;
- 30 6-N-(2-aminocyclohexyl)-4-N-[(3-chloro-4-methylphenyl)methyl]-1-methylpyrazolo[3,4-d]pyrimidine-4,6-diamine;
- 6-N-[(4-aminooxan-4-yl)methyl]-1-methyl-4-N-[6-(trifluoromethyl)pyridin-3-yl]pyrazolo[3,4-d]pyrimidine-4,6-diamine;
- 35 N6-[(3R,4S)-4-aminotetrahydrofuran-3-yl]-1-methyl-N4-[4-(trifluoromethyl)phenyl]pyrazolo[3,4-d]pyrimidine-4,6-diamine;

N6-(2-aminoethyl)-N4-[(4-methoxyphenyl)methyl]-1-methyl-1H-pyrazolo[3,4-d]pyrimidine-4,6-diamine;

tert-butyl 4-[(6-[(2-aminoethyl)amino]-1-methyl-1H-pyrazolo[3,4-d]pyrimidin-4-yl)amino)methyl]piperidine-1-carboxylate;

5 N6-(2-aminoethyl)-N4-[(1-benzylpiperidin-4-yl)methyl]-1-methyl-1H-pyrazolo[3,4-d]pyrimidine-4,6-diamine;

N6-(2-aminoethyl)-N4-[(1-benzoylpiperidin-4-yl)methyl]-1-methyl-1H-pyrazolo[3,4-d]pyrimidine-4,6-diamine;

10 N6-(2-aminoethyl)-N4-[(1-(3-chloro-4-methoxybenzoyl)piperidin-4-yl)methyl]-1-methyl-1H-pyrazolo[3,4-d]pyrimidine-4,6-diamine;

6-N-(2-Amino-2-methylpropyl)-1,3-dimethyl-4-N-[[3-

(trifluoromethyl)phenyl]methyl]pyrazolo[3,4-b]pyridine-4,6-diamine;

6-N-[(1-Aminocyclopropyl)methyl]-4-N-[(3-chloro-4-methylphenyl)methyl]-1-methylpyrazolo[3,4-d]pyrimidine-4,6-diamine;

15 6-N-[(1-Aminocyclopropyl)methyl]-4-N-[(3-chloro-4-fluorophenyl)methyl]-1-methylpyrazolo[3,4-d]pyrimidine-4,6-diamine;

N6-[(1-aminocyclopropyl)methyl]-N4-[3-fluoro-4-(trifluoromethyl)phenyl]-1-methylpyrazolo[3,4-d]pyrimidine-4,6-diamine;

6-N-[(1-aminocyclopropyl)methyl]-4-N-(3-chloro-4-methoxyphenyl)-1-

20 methylpyrazolo[3,4-d]pyrimidine-4,6-diamine;

6-N-[(1-aminocyclopropyl)methyl]-4-N-(2,4-difluorophenyl)-1-methylpyrazolo[3,4-d]pyrimidine-4,6-diamine;

6-N-[(1-aminocyclopropyl)methyl]-1-methyl-4-N-[3-

(trifluoromethyl)phenyl]pyrazolo[3,4-d]pyrimidine-4,6-diamine;

25 6-N-[(1-aminocyclopropyl)methyl]-4-N-[3-(difluoromethyl)phenyl]-1-methylpyrazolo[3,4-d]pyrimidine-4,6-diamine;

6-N-[(1-aminocyclopropyl)methyl]-4-N-(4-fluorophenyl)-1-methylpyrazolo[3,4-d]pyrimidine-4,6-diamine;

6-N-[(1-aminocyclopropyl)methyl]-4-N-(3-chloro-4-methylphenyl)-1-

30 methylpyrazolo[3,4-d]pyrimidine-4,6-diamine;

6-N-[(1-aminocyclopropyl)methyl]-1-methyl-4-N-pyridin-3-ylpyrazolo[3,4-d]pyrimidine-4,6-diamine;

6-N-[(1-aminocyclopropyl)methyl]-1-methyl-4-N-phenylpyrazolo[3,4-d]pyrimidine-4,6-diamine;

35 6-N-[(1-aminocyclopropyl)methyl]-4-N-[(3-bromophenyl)methyl]-1-methylpyrazolo[3,4-d]pyrimidine-4,6-diamine;

- 6-N-[(1-aminocyclopropyl)methyl]-4-N-[(4-bromophenyl)methyl]-1-methylpyrazolo[3,4-d]pyrimidine-4,6-diamine;
- 6-N-[(1-aminocyclopropyl)methyl]-4-N-(2-chloro-4-fluorophenyl)-1-methylpyrazolo[3,4-d]pyrimidine-4,6-diamine;
- 5 6-N-[(1-aminocyclopropyl)methyl]-4-N-(4-chloro-2-fluorophenyl)-1-methylpyrazolo[3,4-d]pyrimidine-4,6-diamine;
- 6-N-[(1-aminocyclopropyl)methyl]-4-N-(3-chloro-5-fluorophenyl)-1-methylpyrazolo[3,4-d]pyrimidine-4,6-diamine;
- 10 5-[[6-[(1-aminocyclopropyl)methylamino]-1-methyl-pyrazolo[3,4-d]pyrimidin-4-yl]amino]-2-chloro-benzonitrile;
- N6-[(1-aminocyclopropyl)methyl]-1-methyl-N4-(1-phenyl-3-bicyclo[1.1.1]pentanyl)pyrazolo[3,4-d]pyrimidine-4,6-diamine;
- 6-N-[(1-aminocyclopropyl)methyl]-1-methyl-4-N-[[6-(trifluoromethyl)pyridin-3-yl]methyl]pyrazolo[3,4-d]pyrimidine-4,6-diamine;
- 15 6-N-[(1-aminocyclopropyl)methyl]-4-N-(4-chloro-3,5-difluorophenyl)-1-methylpyrazolo[3,4-d]pyrimidine-4,6-diamine;
- 6-N-[(1-aminocyclopropyl)methyl]-4-N-[3-(difluoromethoxy)phenyl]-1-methylpyrazolo[3,4-d]pyrimidine-4,6-diamine;
- 20 6-N-[(1-aminocyclopropyl)methyl]-1-methyl-4-N-(4-propan-2-yloxyphenyl)pyrazolo[3,4-d]pyrimidine-4,6-diamine;
- 6-N-[(1-aminocyclopropyl)methyl]-4-N-[(4-chloro-3-fluorophenyl)methyl]-1-methylpyrazolo[3,4-d]pyrimidine-4,6-diamine;
- 6-N-[(1-aminocyclopropyl)methyl]-4-N-(2,3-difluorophenyl)-1-methylpyrazolo[3,4-d]pyrimidine-4,6-diamine;
- 25 6-N-[(1-aminocyclopropyl)methyl]-4-N-(2,5-difluorophenyl)-1-methylpyrazolo[3,4-d]pyrimidine-4,6-diamine;
- 6-N-[(1-aminocyclopropyl)methyl]-4-N-[(2,4-difluorophenyl)methyl]-1-methylpyrazolo[3,4-d]pyrimidine-4,6-diamine;
- 6-N-[(1-aminocyclopropyl)methyl]-4-N-(3-chloro-4-fluorophenyl)-1-methylpyrazolo[3,4-d]pyrimidine-4,6-diamine;
- 30 6-N-[(1-aminocyclopropyl)methyl]-4-N-(4-chlorophenyl)-1-methylpyrazolo[3,4-d]pyrimidine-4,6-diamine;
- 6-N-[(1-aminocyclopropyl)methyl]-4-N-(3-fluorophenyl)-1-methylpyrazolo[3,4-d]pyrimidine-4,6-diamine;
- 35 6-N-[(1-aminocyclopropyl)methyl]-1,3-dimethyl-4-N-[4-(trifluoromethyl)phenyl]pyrazolo[3,4-d]pyrimidine-4,6-diamine;

- 4-[[6-[(1-aminocyclopropyl)methylamino]-1-methylpyrazolo[3,4-d]pyrimidin-4-yl]amino]benzonitrile;
- 6-N-[(1-aminocyclopropyl)methyl]-1-methyl-4-N-[4-(trifluoromethoxy)phenyl]pyrazolo[3,4-d]pyrimidine-4,6-diamine;
- 5 6-N-[(1-aminocyclopropyl)methyl]-4-N-(4-methoxyphenyl)-1-methylpyrazolo[3,4-d]pyrimidine-4,6-diamine;
- 6-N-[(1-aminocyclopropyl)methyl]-4-N-[4-(difluoromethoxy)phenyl]-1-methylpyrazolo[3,4-d]pyrimidine-4,6-diamine;
- 10 6-N-[(1-aminocyclopropyl)methyl]-4-N-(3-chlorophenyl)-1-methylpyrazolo[3,4-d]pyrimidine-4,6-diamine;
- 6-N-[(1-aminocyclopropyl)methyl]-4-N-[4-(difluoromethyl)phenyl]-1-methylpyrazolo[3,4-d]pyrimidine-4,6-diamine;
- 3-[[6-[(1-aminocyclopropyl)methylamino]-1-methylpyrazolo[3,4-d]pyrimidin-4-yl]amino]bicyclo[1.1.1]pentane-1-carbonitrile;
- 15 6-N-[(1-aminocyclopropyl)methyl]-4-N-(3-bicyclo[1.1.1]pentanyl)-1-methylpyrazolo[3,4-d]pyrimidine-4,6-diamine;
- 6-N-[(1-aminocyclopropyl)methyl]-4-N-(3,4-difluorophenyl)-1-methylpyrazolo[3,4-d]pyrimidine-4,6-diamine;
- 6-N-[(1-aminocyclopropyl)methyl]-4-N-(3,4-dichlorophenyl)-1-methylpyrazolo[3,4-d]pyrimidine-4,6-diamine;
- 20 6-N-[(1-aminocyclopropyl)methyl]-4-N-(4-chloro-3-methoxyphenyl)-1-methylpyrazolo[3,4-d]pyrimidine-4,6-diamine;
- N6-[(1-aminocyclopropyl)methyl]-N4-[(2,4-dimethoxyphenyl)methyl]-1-methylpyrazolo[3,4-d]pyrimidine-4,6-diamine;
- 25 N6-[(1-aminocyclopropyl)methyl]-N4-{3-fluorobicyclo[1.1.1]pentan-1-yl}-1-methyl-1H-pyrazolo[3,4-d]pyrimidine-4,6-diamine;
- 6-N-[(1-aminocyclopropyl)methyl]-1-methyl-4-N-[4-(trifluoromethyl)phenyl]pyrazolo[3,4-d]pyrimidine-4,6-diamine;
- 6-N-[(1-aminocyclopropyl)methyl]-1-methyl-4-N-[6-(trifluoromethyl)pyridin-3-yl]pyrazolo[3,4-d]pyrimidine-4,6-diamine;
- 30 6-N-[(1-aminocyclopropyl)methyl]-4-N-(5-chloropyridin-2-yl)-1-methylpyrazolo[3,4-d]pyrimidine-4,6-diamine;
- N6-[(1-aminocyclopropyl)methyl]-1-methyl-N4-[5-(trifluoromethyl)pyrazin-2-yl]pyrazolo[3,4-d]pyrimidine-4,6-diamine;
- 35 6-N-[(1-aminocyclopropyl)methyl]-1-ethyl-4-N-[4-(trifluoromethyl)phenyl]pyrazolo[3,4-d]pyrimidine-4,6-diamine;

- N6-[(1-aminocyclopropyl)methyl]-1-(trideuteriomethyl)-N4-[4-(trifluoromethyl)phenyl]pyrazolo[3,4-d]pyrimidine-4,6-diamine;
- N6-[(1-aminocyclopropyl)methyl]-1-(trideuteriomethyl)-N4-[6-(trifluoromethyl)-3-pyridyl]pyrazolo[3,4-d]pyrimidine-4,6-diamine;
- 5 6-N-[(1-aminocyclopropyl)methyl]-4-N-[4-[2-(3-but-3-ynyldiazirin-3-yl)ethoxy]-3-chlorophenyl]methyl]-1-methylpyrazolo[3,4-d]pyrimidine-4,6-diamine
- Compound 2.52: N6-[(1-Aminocyclopropyl)methyl]-1-methyl-N4-[4-(trifluoromethyl)phenyl]pyrazolo[3,4-b]pyridine-4,6-diamine;
- 6-N-(2-aminopropyl)-4-N-[(3-chloro-4-methylphenyl)methyl]-1-methylpyrazolo[3,4-d]pyrimidine-4,6-diamine;
- 10 6-N-(1-aminopropan-2-yl)-4-N-[(3-chloro-4-methylphenyl)methyl]-1-methylpyrazolo[3,4-d]pyrimidine-4,6-diamine;
- 6-N-[(2S)-2-aminopropyl]-4-N-[(3-chloro-4-methylphenyl)methyl]-1-methylpyrazolo[3,4-d]pyrimidine-4,6-diamine;
- 15 6-N-[(2R)-2-aminopropyl]-4-N-[(3-chloro-4-methylphenyl)methyl]-1-methylpyrazolo[3,4-d]pyrimidine-4,6-diamine;
- 6-N-[(2S)-1-aminobutyl]-4-N-[(3-chloro-4-methylphenyl)methyl]-1-methylpyrazolo[3,4-d]pyrimidine-4,6-diamine;
- 6-N-[(2S)-2-aminobutyl]-4-N-[(3-chloro-4-methylphenyl)methyl]-1-methylpyrazolo[3,4-d]pyrimidine-4,6-diamine;
- 20 6-N-[(2R)-2-aminobutyl]-4-N-[(3-chloro-4-methylphenyl)methyl]-1-methylpyrazolo[3,4-d]pyrimidine-4,6-diamine;
- N6-[(1-aminocyclobutyl)methyl]-1-methyl-N4-[4-(trifluoromethyl)phenyl]pyrazolo[3,4-d]pyrimidine-4,6-diamine;
- 25 N6-[(1-aminocyclobutyl)methyl]-N4-[4-(difluoromethoxy)phenyl]-1-methylpyrazolo[3,4-d]pyrimidine-4,6-diamine;
- N6-(2-amino-2-cyclohexyl-ethyl)-N4-tert-butyl-1-methyl-pyrazolo[3,4-d]pyrimidine-4,6-diamine;
- N6-(2-amino-2-cyclohexyl-ethyl)-1-methyl-N4-[4-(trifluoromethyl)phenyl]pyrazolo[3,4-d]pyrimidine-4,6-diamine;
- 30 6-N-[(1-amino-3,3-difluorocyclobutyl)methyl]-1-methyl-4-N-[4-(trifluoromethyl)phenyl]pyrazolo[3,4-d]pyrimidine-4,6-diamine;
- 6-N-(2-amino-2-cyclopropylethyl)-1-methyl-4-N-[4-(trifluoromethyl)phenyl]pyrazolo[3,4-d]pyrimidine-4,6-diamine;
- 35 6-N-[(3-aminooxolan-3-yl)methyl]-1-methyl-4-N-[4-(trifluoromethyl)phenyl]pyrazolo[3,4-d]pyrimidine-4,6-diamine;

- N6-[(3-aminotetrahydrofuran-3-yl)methyl]-1-methyl-N4-[6-(trifluoromethyl)-3-pyridyl]pyrazolo[3,4-d]pyrimidine-4,6-diamine;
- 1-methyl-N6-[(morpholin-3-yl)methyl]-N4-[4-(trifluoromethyl)phenyl]-1H-pyrazolo[3,4-d]pyrimidine-4,6-diamine;
- 5 4-N-[(3-chloro-4-methylphenyl)methyl]-1-methyl-6-N-[(2R)-pyrrolidin-2-yl]methyl]pyrazolo[3,4-d]pyrimidine-4,6-diamine;
- 6-N-[(1-aminocyclopentyl)methyl]-1-methyl-4-N-[4-(trifluoromethyl)phenyl]pyrazolo[3,4-d]pyrimidine-4,6-diamine;
- 6-N-[(1-aminocyclopentyl)methyl]-1-methyl-4-N-[6-(trifluoromethyl)pyridin-3-yl]pyrazolo[3,4-d]pyrimidine-4,6-diamine;
- 10 6-N-[(1-aminocyclopentyl)methyl]-4-N-[4-(difluoromethoxy)phenyl]-1-methylpyrazolo[3,4-d]pyrimidine-4,6-diamine;
- 6-N-[(1-aminocyclopentyl)methyl]-1-methyl-4-N-phenylpyrazolo[3,4-d]pyrimidine-4,6-diamine;
- 15 4-[[6-[(1-aminocyclopentyl)methylamino]-1-methylpyrazolo[3,4-d]pyrimidin-4-yl]amino]benzonitrile;
- 6-N-[(1-aminocyclopentyl)methyl]-1-methyl-4-N-[4-(trifluoromethoxy)phenyl]pyrazolo[3,4-d]pyrimidine-4,6-diamine;
- N6-[(1-aminocyclobutyl)methyl]-1-(trideuteriomethyl)-N4-[4-(trifluoromethyl)phenyl]pyrazolo[3,4-d]pyrimidine-4,6-diamine;
- 20 N6-(2-aminocyclohexyl)-N4-[(3-chloro-4-methylphenyl)methyl]-1-methyl-1H-pyrazolo[3,4-d]pyrimidine-4,6-diamine;
- N6-(2-Amino-3-fluoropropyl)-N4-[(3-chloro-4-methylphenyl)methyl]-1-methyl-1H-pyrazolo[3,4-d]pyrimidine-4,6-diamine;
- 25 6-N-(2-amino-3-fluoropropyl)-1-methyl-4-N-[4-(trifluoromethyl)phenyl]pyrazolo[3,4-d]pyrimidine-4,6-diamine;
- 6-N-(2-amino-3-methoxypropyl)-4-N-[(3-chloro-4-methylphenyl)methyl]-1-methylpyrazolo[3,4-d]pyrimidine-4,6-diamine;
- 6-N-[(3-Aminooxetan-3-yl)methyl]-1-methyl-4-N-[4-(trifluoromethyl)phenyl]pyrazolo[3,4-d]pyrimidine-4,6-diamine;
- 30 6-N-[(3-Aminooxetan-3-yl)methyl]-1-methyl-4-N-phenylpyrazolo[3,4-d]pyrimidine-4,6-diamine;
- N6-(2-Amino-2-phenyl-propyl)-N4-tert-butyl-1-(trideuteriomethyl)pyrazolo[3,4-d]pyrimidine-4,6-diamine;
- 35 6-N-(2-Amino-2-phenylethyl)-1-ethyl-4-N-propan-2-ylpyrazolo[3,4-d]pyrimidine-4,6-diamine;

- 6-N-(2-amino-2-phenylethyl)-4-N-[(3-chloro-4-methylphenyl)methyl]-1-methylpyrazolo[3,4-d]pyrimidine-4,6-diamine;
- 6-N-(2-amino-2-phenylethyl)-4-N-[(2,4-difluorophenyl)methyl]-1-methylpyrazolo[3,4-d]pyrimidine-4,6-diamine;
- 5 6-N-(2-amino-2-phenylethyl)-4-N-[(3-chloro-4-fluorophenyl)methyl]-1-methylpyrazolo[3,4-d]pyrimidine-4,6-diamine;
- 6-N-(2-amino-2-phenylethyl)-4-N-[(3-bromophenyl)methyl]-1-methylpyrazolo[3,4-d]pyrimidine-4,6-diamine;
- 10 6-N-(2-amino-2-phenylethyl)-4-N-[(4-bromophenyl)methyl]-1-methylpyrazolo[3,4-d]pyrimidine-4,6-diamine;
- 6-N-(2-amino-2-phenylethyl)-1-methyl-4-N-[[6-(trifluoromethyl)pyridin-3-yl]methyl]pyrazolo[3,4-d]pyrimidine-4,6-diamine;
- N6-(2-amino-2-phenyl-ethyl)-N4-[(2,4-dimethoxyphenyl)methyl]-1-methylpyrazolo[3,4-d]pyrimidine-4,6-diamine;
- 15 6-N-(2-amino-2-phenylethyl)-4-N-(4-fluorophenyl)-1-methylpyrazolo[3,4-d]pyrimidine-4,6-diamine;
- N6-(2-amino-2-phenyl-propyl)-1-methyl-N4-[2-(trifluoromethyl)pyrimidin-5-yl]pyrazolo[3,4-d]pyrimidine-4,6-diamine;
- N6-(2-amino-2-phenyl-propyl)-1-methyl-N4-[4-(trifluoromethoxy)phenyl]pyrazolo[3,4-d]pyrimidine-4,6-diamine;
- 20 N6-(2-amino-2-phenyl-propyl)-N4-(3,4-dichlorophenyl)-1-methyl-pyrazolo[3,4-d]pyrimidine-4,6-diamine;
- 6-N-(2-amino-2-phenylethyl)-4-N-[4-(difluoromethoxy)phenyl]-1-methylpyrazolo[3,4-d]pyrimidine-4,6-diamine;
- 25 6-N-(2-amino-2-phenylpropyl)-4-N-[4-(difluoromethoxy)phenyl]-1-methylpyrazolo[3,4-d]pyrimidine-4,6-diamine;
- N6-[(2R)-2-amino-2-phenyl-ethyl]-N4-[4-(difluoromethoxy)phenyl]-1-methylpyrazolo[3,4-d]pyrimidine-4,6-diamine;
- 6-N-(2-amino-2-phenylethyl)-1-methyl-4-N-[4-(trifluoromethyl)phenyl]pyrazolo[3,4-d]pyrimidine-4,6-diamine;
- 30 6-N-(2-amino-2-phenylethyl)-1,3-dimethyl-4-N-[4-(trifluoromethyl)phenyl]pyrazolo[3,4-d]pyrimidine-4,6-diamine;
- N6-(2-amino-2-phenyl-propyl)-1-methyl-N4-[4-(trifluoromethyl)phenyl]pyrazolo[3,4-d]pyrimidine-4,6-diamine;
- 35 N6-(2-amino-2-phenyl-ethyl)-1-(trideuteriomethyl)-N4-[4-(trifluoromethyl)phenyl]pyrazolo[3,4-d]pyrimidine-4,6-diamine;

- N6-(2-amino-2-phenyl-propyl)-1-(trideuteriomethyl)-N4-[4-(trifluoromethyl)phenyl]pyrazolo[3,4-d]pyrimidine-4,6-diamine;
6-N-[(2R)-2-amino-2-phenylethyl]-1-methyl-4-N-[4-(trifluoromethyl)phenyl]pyrazolo[3,4-d]pyrimidine-4,6-diamine;
 5 6-N-[(2S)-2-amino-2-phenylethyl]-1-methyl-4-N-[4-(trifluoromethyl)phenyl]pyrazolo[3,4-d]pyrimidine-4,6-diamine;
N6-[(2R)-2-amino-2-phenyl-ethyl]-1-(trideuteriomethyl)-N4-[4-(trifluoromethyl)phenyl]pyrazolo[3,4-d]pyrimidine-4,6-diamine;
6-N-(2-amino-2-phenylethyl)-1-methyl-4-N-[6-(trifluoromethyl)pyridin-3-yl]pyrazolo[3,4-d]pyrimidine-4,6-diamine;
 10 6-N-(2-amino-2-phenylpropyl)-1-methyl-4-N-[6-(trifluoromethyl)pyridin-3-yl]pyrazolo[3,4-d]pyrimidine-4,6-diamine;
N6-(2-amino-2-phenyl-propyl)-1-(trideuteriomethyl)-N4-[6-(trifluoromethyl)-3-pyridyl]pyrazolo[3,4-d]pyrimidine-4,6-diamine;
 15 N6-(2-amino-2-phenyl-ethyl)-N4-[6-(difluoromethoxy)-3-pyridyl]-1-methyl-pyrazolo[3,4-d]pyrimidine-4,6-diamine;
N6-(2-amino-2-phenyl-propyl)-N4-[6-(difluoromethoxy)-3-pyridyl]-1-methyl-pyrazolo[3,4-d]pyrimidine-4,6-diamine;
N6-[(2R)-2-amino-2-phenyl-ethyl]-N4-(4-chlorophenyl)-1-methyl-pyrazolo[3,4-d]pyrimidine-4,6-diamine;
 20 N6-[(2S)-2-amino-2-phenyl-ethyl]-N4-(4-chlorophenyl)-1-methyl-pyrazolo[3,4-d]pyrimidine-4,6-diamine;
N6-[(2R)-2-amino-2-phenyl-ethyl]-N4-(4-methoxyphenyl)-1-methyl-pyrazolo[3,4-d]pyrimidine-4,6-diamine;
 25 N6-[(2R)-2-amino-2-phenyl-ethyl]-N4-(4-isopropoxyphenyl)-1-methyl-pyrazolo[3,4-d]pyrimidine-4,6-diamine;
N6-[(2R)-2-amino-2-phenyl-ethyl]-N4-(3,4-difluorophenyl)-1-methyl-pyrazolo[3,4-d]pyrimidine-4,6-diamine;
N6-[(2R)-2-amino-2-phenyl-ethyl]-N4-[4-(dimethylamino)phenyl]-1-methyl-pyrazolo[3,4-d]pyrimidine-4,6-diamine;
 30 6-N-(2-amino-2-phenylethyl)-4-N,1-dimethylpyrazolo[3,4-d]pyrimidine-4,6-diamine;
6-N-(2-amino-2-phenylethyl)-1-methyl-4-N-(trideuteriomethyl)pyrazolo[3,4-d]pyrimidine-4,6-diamine;
6-N-(2-amino-2-phenylethyl)-4-N-methyl-1-(trideuteriomethyl)pyrazolo[3,4-d]pyrimidine-4,6-diamine;
 35 6-N-(2-amino-2-phenylpropyl)-4-N,1-dimethylpyrazolo[3,4-d]pyrimidine-4,6-diamine;

- 6-N-[(2R)-2-amino-2-phenylethyl]-4-N,1-dimethylpyrazolo[3,4-d]pyrimidine-4,6-diamine;
- 6-N-(2-amino-2-phenylethyl)-4-N-ethyl-1-methylpyrazolo[3,4-d]pyrimidine-4,6-diamine;
- 5 6-N-(2-amino-2-phenylethyl)-4-N-ethyl-4-N,1-dimethylpyrazolo[3,4-d]pyrimidine-4,6-diamine;
- 6-N-(2-amino-2-phenylethyl)-4-N-cyclopropyl-1-methylpyrazolo[3,4-d]pyrimidine-4,6-diamine;
- 10 6-N-(2-amino-2-phenylethyl)-1-methyl-4-N-(2,2,2-trifluoroethyl)pyrazolo[3,4-d]pyrimidine-4,6-diamine;
- N6-[(2R)-2-amino-2-phenyl-ethyl]-1-methyl-N4-(2,2,2-trifluoroethyl)pyrazolo[3,4-d]pyrimidine-4,6-diamine;
- 6-N-(2-amino-2-phenylethyl)-1-methyl-4-N-propan-2-ylpyrazolo[3,4-d]pyrimidine-4,6-diamine;
- 15 6-N-[(2R)-2-amino-2-phenylethyl]-1-methyl-4-N-propan-2-ylpyrazolo[3,4-d]pyrimidine-4,6-diamine;
- N'-(1-methyl-4-pyrrolidin-1-ylpyrazolo[3,4-d]pyrimidin-6-yl)-1-phenylethane-1,2-diamine;
- 6-N-(2-amino-2-phenylethyl)-4-N-(2-methoxyethyl)-1-methylpyrazolo[3,4-d]pyrimidine-4,6-diamine;
- 20 6-N-(2-amino-2-phenylethyl)-4-N-tert-butyl-1-methylpyrazolo[3,4-d]pyrimidine-4,6-diamine;
- N6-(2-amino-2-phenyl-propyl)-N4-tert-butyl-1-methyl-pyrazolo[3,4-d]pyrimidine-4,6-diamine;
- 25 N6-(2-amino-2-phenyl-ethyl)-N4-tert-butyl-1-(trideuteriomethyl)pyrazolo[3,4-d]pyrimidine-4,6-diamine;
- 6-N-[(2R)-2-amino-2-phenylethyl]-4-N-tert-butyl-1-methylpyrazolo[3,4-d]pyrimidine-4,6-diamine;
- 6-N-[(2S)-2-amino-2-phenylethyl]-4-N-tert-butyl-1-methylpyrazolo[3,4-d]pyrimidine-4,6-diamine;
- 30 N6-[(2R)-2-amino-2-phenyl-ethyl]-N4-tert-butyl-1-(trideuteriomethyl)pyrazolo[3,4-d]pyrimidine-4,6-diamine;
- 6-N-(2-amino-2-phenylethyl)-4-N-(cyclopropylmethyl)-1-methylpyrazolo[3,4-d]pyrimidine-4,6-diamine;
- 35 N6-(2-amino-2-phenyl-ethyl)-N4-(dicyclopropylmethyl)-1-methyl-pyrazolo[3,4-d]pyrimidine-4,6-diamine;

- N6-[(2R)-2-amino-2-phenyl-ethyl]-1-methyl-N4-[(2-methylcyclopropyl)methyl]pyrazolo[3,4-d]pyrimidine-4,6-diamine;
- N6-[(2R)-2-amino-2-phenyl-ethyl]-N4-(1-cyclopropyl-1-methyl-ethyl)-1-methyl-pyrazolo[3,4-d]pyrimidine-4,6-diamine;
- 5 N6-[(2R)-2-amino-2-phenyl-ethyl]-1-methyl-N4-(spiro[2.2]pentan-2-ylmethyl)pyrazolo[3,4-d]pyrimidine-4,6-diamine;
- N6-[(2R)-2-amino-2-phenyl-ethyl]-N4-[(2,2-difluorocyclopropyl)methyl]-1-methyl-pyrazolo[3,4-d]pyrimidine-4,6-diamine;
- N6-[(2R)-2-amino-2-phenyl-ethyl]-N4-[(2,2-dimethylcyclopropyl)methyl]-1-methyl-pyrazolo[3,4-d]pyrimidine-4,6-diamine;
- 10 6-N-(2-amino-2-phenylethyl)-4-N-(2-bicyclo[1.1.1]pentanyl)-1-methylpyrazolo[3,4-d]pyrimidine-4,6-diamine;
- 3-[[6-[(2-amino-2-phenylethyl)amino]-1-methylpyrazolo[3,4-d]pyrimidin-4-yl]amino]bicyclo[1.1.1]pentane-1-carbonitrile;
- 15 N6-(2-amino-2-phenylethyl)-N4-{3-fluorobicyclo[1.1.1]pentan-1-yl}-1-methyl-1H-pyrazolo[3,4-d]pyrimidine-4,6-diamine;
- N6-[(2R)-2-amino-2-phenyl-ethyl]-N4-(3-bicyclo[1.1.1]pentanyl)-1-methyl-pyrazolo[3,4-d]pyrimidine-4,6-diamine;
- N6-[(2R)-2-amino-2-phenyl-ethyl]-N4-(3-fluoro-1-bicyclo[1.1.1]pentanyl)-1-methyl-pyrazolo[3,4-d]pyrimidine-4,6-diamine;
- 20 6-N-(2-amino-2-phenylethyl)-4-N-(4,4-difluorocyclohexyl)-1-methylpyrazolo[3,4-d]pyrimidine-4,6-diamine;
- N6-[(2R)-2-amino-2-phenyl-ethyl]-1-methyl-N4-tetrahydropyran-4-yl-pyrazolo[3,4-d]pyrimidine-4,6-diamine;
- 25 3-[[6-[(2R)-2-amino-2-phenyl-ethyl]amino]-1-methyl-pyrazolo[3,4-d]pyrimidin-4-yl]amino]-3-methyl-butan-1-ol;
- 2-[[6-[(2R)-2-amino-2-phenyl-ethyl]amino]-1-methyl-pyrazolo[3,4-d]pyrimidin-4-yl]amino]-2-methyl-propan-1-ol;
- N6-[(2R)-2-amino-2-phenyl-ethyl]-N4-(2,2-dimethylpropyl)-1-methyl-pyrazolo[3,4-d]pyrimidine-4,6-diamine;
- 30 N6-[(2R)-2-amino-2-phenyl-ethyl]-N4-(2,2-difluoroethyl)-1-methyl-pyrazolo[3,4-d]pyrimidine-4,6-diamine;
- N6-[(2R)-2-amino-2-phenyl-ethyl]-N4-(2,2-difluoropropyl)-1-methyl-pyrazolo[3,4-d]pyrimidine-4,6-diamine;
- 35 N6-[(2R)-2-amino-2-phenyl-ethyl]-1-methyl-N4-(2,2,2-trifluoro-1,1-dimethyl-ethyl)pyrazolo[3,4-d]pyrimidine-4,6-diamine;

N6-[(2R)-2-amino-2-phenyl-ethyl]-1-methyl-N4-[(1S)-2,2,2-trifluoro-1-methyl-ethyl]pyrazolo[3,4-d]pyrimidine-4,6-diamine;

N6-[(2R)-2-amino-2-phenyl-ethyl]-1-methyl-N4-(1-methylcyclopropyl)pyrazolo[3,4-d]pyrimidine-4,6-diamine;

5 N6-[(2R)-2-amino-2-phenyl-ethyl]-1-methyl-N4-[1-(trifluoromethyl)cyclopropyl]pyrazolo[3,4-d]pyrimidine-4,6-diamine;

N6-[(2R)-2-amino-2-phenyl-ethyl]-N4-(1-tert-butylcyclopropyl)-1-methyl-pyrazolo[3,4-d]pyrimidine-4,6-diamine;

10 N6-[(2R)-2-amino-2-phenyl-ethyl]-1-methyl-N4-spiro[2.2]pentan-2-yl-pyrazolo[3,4-d]pyrimidine-4,6-diamine;

[3-[[6-[(2-amino-2-phenyl-ethyl)amino]-1-methyl-pyrazolo[3,4-d]pyrimidin-4-yl]amino]-1-(chloromethyl)cyclobutyl]methanol;

N6-(2-amino-2-phenyl-ethyl)-N4-(2,2-difluorospiro[3.3]heptan-6-yl)-1-methyl-pyrazolo[3,4-d]pyrimidine-4,6-diamine;

15 N6-[(2R)-2-amino-2-phenyl-ethyl]-N4-cyclobutyl-1-methyl-pyrazolo[3,4-d]pyrimidine-4,6-diamine;

N6-[(2R)-2-amino-2-phenyl-ethyl]-1-methyl-N4-(1-methylcyclobutyl)pyrazolo[3,4-d]pyrimidine-4,6-diamine;

20 N6-[(2R)-2-amino-2-phenyl-ethyl]-N4-(3,3-difluorocyclobutyl)-1-methyl-pyrazolo[3,4-d]pyrimidine-4,6-diamine;

N6-[(2R)-2-amino-2-phenyl-ethyl]-N4-(3,3-difluoro-1-methyl-cyclobutyl)-1-methyl-pyrazolo[3,4-d]pyrimidine-4,6-diamine;

N6-[(2R)-2-amino-2-phenyl-ethyl]-1-methyl-N4-(3-methylcyclobutyl)pyrazolo[3,4-d]pyrimidine-4,6-diamine;

25 N6-[(2R)-2-amino-2-phenyl-ethyl]-N4-(3-fluorocyclobutyl)-1-methyl-pyrazolo[3,4-d]pyrimidine-4,6-diamine;

N6-[(2R)-2-amino-2-phenyl-ethyl]-N4-(3-fluorocyclobutyl)-1-methyl-pyrazolo[3,4-d]pyrimidine-4,6-diamine;

30 N6-[(2R)-2-amino-2-phenyl-ethyl]-N4-(3-fluorocyclobutyl)-1-methyl-pyrazolo[3,4-d]pyrimidine-4,6-diamine;

3-[[6-[(2R)-2-amino-2-phenyl-ethyl]amino]-1-methyl-pyrazolo[3,4-d]pyrimidin-4-yl]amino]cyclobutanecarbonitrile;

N6-[(2R)-2-amino-2-phenyl-ethyl]-N4-(3-methoxycyclobutyl)-1-methyl-pyrazolo[3,4-d]pyrimidine-4,6-diamine;

35 N6-[(2R)-2-amino-2-phenyl-ethyl]-N4-(3,3-dichlorocyclobutyl)-1-methyl-pyrazolo[3,4-d]pyrimidine-4,6-diamine;

- N6-[(2R)-2-amino-2-phenyl-ethyl]-N4-(2,2-difluorospiro[3.3]heptan-6-yl)-1-methyl-pyrazolo[3,4-d]pyrimidine-4,6-diamine;
- N6-[(2R)-2-amino-2-phenyl-ethyl]-1-methyl-N4-(2-oxaspiro[3.3]heptan-6-yl)pyrazolo[3,4-d]pyrimidine-4,6-diamine;
- 5 N6-[(2R)-2-amino-2-phenyl-ethyl]-N4-(3,3-dimethylcyclobutyl)-1-methyl-pyrazolo[3,4-d]pyrimidine-4,6-diamine;
- N6-[(2R)-2-amino-2-phenyl-ethyl]-N4-(3-fluoro-3-methyl-cyclobutyl)-1-methyl-pyrazolo[3,4-d]pyrimidine-4,6-diamine;
- 10 N6-[(2R)-2-amino-2-phenyl-ethyl]-1-methyl-N4-[(1S)-2,2,2-trifluoro-1-methyl-ethyl]pyrazolo[3,4-d]pyrimidine-4,6-diamine;
- N6-[(2R)-2-amino-2-phenyl-ethyl]-1-methyl-N4-spiro[3.3]heptan-2-yl-pyrazolo[3,4-d]pyrimidine-4,6-diamine;
- N6-[(2R)-2-amino-2-phenyl-ethyl]-N4-(2-methoxy-1,1-dimethyl-ethyl)-1-methyl-pyrazolo[3,4-d]pyrimidine-4,6-diamine;
- 15 N6-[(2R)-2-amino-2-phenyl-ethyl]-N4-(1,1-dimethylpropyl)-1-methyl-pyrazolo[3,4-d]pyrimidine-4,6-diamine;
- N6-[(2R)-2-amino-2-phenyl-ethyl]-N4-[(1S)-1-cyclopropylethyl]-1-methyl-pyrazolo[3,4-d]pyrimidine-4,6-diamine;
- N6-[(2R)-2-amino-2-phenyl-ethyl]-N4-isobutyl-1-methyl-pyrazolo[3,4-d]pyrimidine-4,6-diamine;
- 20 N6-[(2R)-2-amino-2-phenyl-ethyl]-1-methyl-N4-(spiro[2.3]hexan-2-ylmethyl)pyrazolo[3,4-d]pyrimidine-4,6-diamine;
- N6-[(2R)-2-amino-2-phenyl-ethyl]-N4-(cyclobutylmethyl)-1-methyl-pyrazolo[3,4-d]pyrimidine-4,6-diamine;
- 25 N6-[(2R)-2-amino-2-phenyl-ethyl]-N4-[(2,2-difluorocyclobutyl)methyl]-1-methyl-pyrazolo[3,4-d]pyrimidine-4,6-diamine;
- N6-[(2R)-2-amino-2-phenyl-ethyl]-N4-[(1-fluorocyclobutyl)methyl]-1-methyl-pyrazolo[3,4-d]pyrimidine-4,6-diamine;
- N6-[(2R)-2-amino-2-phenyl-ethyl]-N4-[(3-fluorocyclobutyl)methyl]-1-methyl-pyrazolo[3,4-d]pyrimidine-4,6-diamine;
- 30 N6-[(2R)-2-amino-2-phenyl-ethyl]-1-methyl-N4-[3-(trifluoromethyl)cyclobutyl]pyrazolo[3,4-d]pyrimidine-4,6-diamine;
- N6-[(2R)-2-amino-2-phenyl-ethyl]-N4-(2-fluoro-2-methyl-propyl)-1-methyl-pyrazolo[3,4-d]pyrimidine-4,6-diamine;
- 35 N6-[(2R)-2-amino-2-phenyl-ethyl]-1-methyl-N4-(1-methylcyclohexyl)pyrazolo[3,4-d]pyrimidine-4,6-diamine;

N6-[(2R)-2-amino-2-phenyl-ethyl]-N4-[(2-fluorocyclobutyl)methyl]-1-methyl-pyrazolo[3,4-d]pyrimidine-4,6-diamine;

N6-[(2R)-2-amino-2-phenyl-ethyl]-N4-cyclopentyl-1-methyl-pyrazolo[3,4-d]pyrimidine-4,6-diamine;

5 N6-[(2R)-2-amino-2-phenyl-ethyl]-1-methyl-N4-(3,3,3-trifluoropropyl)pyrazolo[3,4-d]pyrimidine-4,6-diamine;

N6-[(2R)-2-amino-2-phenyl-ethyl]-N4-[(2,2-dichlorocyclopropyl)methyl]-1-methyl-pyrazolo[3,4-d]pyrimidine-4,6-diamine;

10 N6-[(2R)-2-amino-2-phenyl-ethyl]-1-methyl-N4-(1-methylcyclopentyl)pyrazolo[3,4-d]pyrimidine-4,6-diamine;

N6-[(2R)-2-amino-2-phenyl-ethyl]-N4-[(1R)-2-methoxy-1-methyl-ethyl]-1-methyl-pyrazolo[3,4-d]pyrimidine-4,6-diamine;

N6-[(2R)-2-amino-2-phenyl-ethyl]-1-methyl-N4-(1-methyl-1-tetrahydropyran-4-yl-ethyl)pyrazolo[3,4-d]pyrimidine-4,6-diamine;

15 1-methyl-N6-[(2R)-2-amino-2-phenyl-ethyl]-N4-spiro[2.3]hexan-5-yl-pyrazolo[3,4-d]pyrimidine-4,6-diamine;

N6-[(2R)-2-amino-2-phenyl-ethyl]-N4-(2,2-dimethylcyclopropyl)-1-methyl-pyrazolo[3,4-d]pyrimidine-4,6-diamine;

20 N6-[(2R)-2-amino-2-phenylethyl]-1-methyl-N4-[(2R)-3-methylbutan-2-yl]-1H-pyrazolo[3,4-d]pyrimidine-4,6-diamine;

N6-[(2R)-2-amino-2-phenylethyl]-1-methyl-N4-[(2S)-3-methylbutan-2-yl]-1H-pyrazolo[3,4-d]pyrimidine-4,6-diamine;

6-[(6-{[(2R)-2-amino-2-phenylethyl]amino}-1-methyl-1H-pyrazolo[3,4-d]pyrimidin-4-yl)amino]spiro[3.3]heptan-2-ol;

25 N6-[(2R)-2-amino-2-phenylethyl]-1-methyl-N4-[4-(trifluoromethyl)cyclohexyl]-1H-pyrazolo[3,4-d]pyrimidine-4,6-diamine;

N6-[(2R)-2-amino-2-phenylethyl]-N4-[(1S)-3,3-difluorocyclopentyl]-1-methyl-1H-pyrazolo[3,4-d]pyrimidine-4,6-diamine;

30 N6-[(2R)-2-amino-2-phenylethyl]-1-methyl-N4-(4-methyloxan-4-yl)-1H-pyrazolo[3,4-d]pyrimidine-4,6-diamine;

N6-[(2R)-2-amino-2-phenylethyl]-N4-tert-butyl-1,3-dimethyl-1H-pyrazolo[3,4-d]pyrimidine-4,6-diamine;

N6-[(2R)-2-amino-2-phenylethyl]-N4-[(1R)-1-cyclopropylethyl]-1-methyl-1H-pyrazolo[3,4-d]pyrimidine-4,6-diamine;

35 N6-[(2R)-2-amino-2-phenyl-ethyl]-N4-tert-butyl-1-cyclopropyl-pyrazolo[3,4-d]pyrimidine-4,6-diamine;

- N2-[1-methyl-4-(2-methylpropyl)-1H-pyrazolo[3,4-d]pyrimidin-6-yl]-1-phenylethane-1,2-diamine;
- 6-N-[2-amino-2-(2-methoxyphenyl)ethyl]-4-N-[(3-chloro-4-methylphenyl)methyl]-1-methylpyrazolo[3,4-d]pyrimidine-4,6-diamine;
- 5 6-N-(2-Amino-2-phenylethyl)-4-N-[(3-chloro-4-methylphenyl)methyl]-1-methylpyrazolo[3,4-d]pyrimidine-4,6-diamine;
- 6-N-(2-amino-2-pyridin-2-ylethyl)-1-methyl-4-N-[4-(trifluoromethyl)phenyl]pyrazolo[3,4-d]pyrimidine-4,6-diamine;
- 10 3-[1-Amino-2-[[1-methyl-4-(methylamino)pyrazolo[3,4-d]pyrimidin-6-yl]amino]ethyl]benzonitrile;
- N6-[2-Amino-2-(3-ethynylphenyl)ethyl]-N4-*tert*-butyl-1-methyl-pyrazolo[3,4-d]pyrimidine-4,6-diamine;
- N6-[2-amino-2-(2-pyridyl)ethyl]-N4-*tert*-butyl-1-methyl-pyrazolo[3,4-d]pyrimidine-4,6-diamine;
- 15 6-N-(2-amino-2-pyridin-3-ylethyl)-4-N-[(3-chloro-4-methylphenyl)methyl]-1-methylpyrazolo[3,4-d]pyrimidine-4,6-diamine;
- N6-[2-amino-2-(3-pyridyl)ethyl]-N4-*tert*-butyl-1-methyl-pyrazolo[3,4-d]pyrimidine-4,6-diamine;
- 6-N-[2-amino-2-(2-chlorophenyl)ethyl]-1-methyl-4-N-[4-(trifluoromethyl)phenyl]pyrazolo[3,4-d]pyrimidine-4,6-diamine;
- 20 N6-[2-amino-2-(2-chlorophenyl)ethyl]-N4-*tert*-butyl-1-methyl-pyrazolo[3,4-d]pyrimidine-4,6-diamine;
- N6-[(2R)-2-amino-2-(2-chlorophenyl)ethyl]-N4-*tert*-butyl-1-methyl-pyrazolo[3,4-d]pyrimidine-4,6-diamine;
- 25 6-N-[2-amino-2-(2-fluorophenyl)ethyl]-4-N-[(3-chloro-4-methylphenyl)methyl]-1-methylpyrazolo[3,4-d]pyrimidine-4,6-diamine;
- N6-[2-amino-2-(2-fluorophenyl)ethyl]-N4-*tert*-butyl-1-methyl-pyrazolo[3,4-d]pyrimidine-4,6-diamine;
- N6-[2-amino-2-(2-fluorophenyl)ethyl]-N4-*tert*-butyl-1-(trideuteriomethyl)pyrazolo[3,4-d]pyrimidine-4,6-diamine;
- 30 N6-[(2R)-2-amino-2-(3-bromophenyl)ethyl]-N4-isopropyl-1-methyl-pyrazolo[3,4-d]pyrimidine-4,6-diamine;
- N6-[(2R)-2-amino-2-(3-bromophenyl)ethyl]-1-methyl-N4-(2,2,2-trifluoro-1,1-dimethylethyl)pyrazolo[3,4-d]pyrimidine-4,6-diamine;
- 35 6-N-[2-amino-2-(3-bromophenyl)ethyl]-4-N,1-dimethylpyrazolo[3,4-d]pyrimidine-4,6-diamine;

- N6-[2-amino-2-(3-bromophenyl)ethyl]-N4-tert-butyl-1-methyl-pyrazolo[3,4-d]pyrimidine-4,6-diamine;
6-N-[2-amino-2-(4-bromophenyl)ethyl]-1-methyl-4-N-propan-2-ylpyrazolo[3,4-d]pyrimidine-4,6-diamine;
- 5 N6-[2-amino-2-(2-bromophenyl)ethyl]-N4-tert-butyl-1-methyl-pyrazolo[3,4-d]pyrimidine-4,6-diamine;
4-[1-amino-2-[[1-methyl-4-(methylamino)pyrazolo[3,4-d]pyrimidin-6-yl]amino]ethyl]benzonitrile;
3-[1-amino-2-[[4-(tert-butylamino)-1-methyl-pyrazolo[3,4-d]pyrimidin-6-yl]amino]ethyl]benzonitrile;
- 10 3-[(1R)-1-amino-2-[[1-methyl-4-[(2,2,2-trifluoro-1,1-dimethyl-ethyl)amino]pyrazolo[3,4-d]pyrimidin-6-yl]amino]ethyl]benzonitrile;
N6-[2-amino-2-(3-pyridyl)ethyl]-N4-tert-butyl-1-methyl-pyrazolo[3,4-d]pyrimidine-4,6-diamine;
- 15 N6-[2-amino-2-(3-pyridyl)ethyl]-N4-(3,3-difluorocyclobutyl)-1-methyl-pyrazolo[3,4-d]pyrimidine-4,6-diamine;
N6-[2-amino-2-(4-pyridyl)ethyl]-N4-tert-butyl-1-methyl-pyrazolo[3,4-d]pyrimidine-4,6-diamine;
- 20 N6-[2-amino-2-(4-pyridyl)ethyl]-N4-(3,3-difluorocyclobutyl)-1-methyl-pyrazolo[3,4-d]pyrimidine-4,6-diamine;
4-[(1R)-1-amino-2-{[4-(tert-butylamino)-1-methyl-1H-pyrazolo[3,4-d]pyrimidin-6-yl]amino}ethyl]benzonitrile;
N4-tert-butyl-1-methyl-N6-[(2R)-2-(methylamino)-2-phenylethyl]-1H-pyrazolo[3,4-d]pyrimidine-4,6-diamine;
- 25 N6-[2-amino-2-(4-fluorophenyl)ethyl]-N4-tert-butyl-1-methyl-1H-pyrazolo[3,4-d]pyrimidine-4,6-diamine;
N6-[2-amino-2-(3,4-difluorophenyl)ethyl]-N4-tert-butyl-1-methyl-pyrazolo[3,4-d]pyrimidine-4,6-diamine;
- 30 N6-[2-amino-2-(3-cyclopropylphenyl)ethyl]-N4-tert-butyl-1-methyl-1H-pyrazolo[3,4-d]pyrimidine-4,6-diamine;
N6-[2-amino-2-(4-cyclopropylphenyl)ethyl]-N4-tert-butyl-1-methyl-1H-pyrazolo[3,4-d]pyrimidine-4,6-diamine;
- 35 N'-(4-Ethoxy-1-methylpyrazolo[3,4-d]pyrimidin-6-yl)-1-phenylethane-1,2-diamine;
N'-(1-methyl-4-propan-2-yloxy-pyrazolo[3,4-d]pyrimidin-6-yl)-1-phenylethane-1,2-diamine;
N'-(4-tert-butoxy-1-methyl-pyrazolo[3,4-d]pyrimidin-6-yl)-1-phenyl-ethane-1,2-diamine;

- 1-methyl-N6-[[(3R)-morpholin-3-yl]methyl]-N4-[4-(trifluoromethyl)phenyl]-1H-pyrazolo[3,4-d]pyrimidine-4,6-diamine;
- 6-N-[(1S,2R)-2-aminocyclohexyl]-4-N-[(3-chloro-4-methylphenyl)methyl]-1-methylpyrazolo[3,4-d]pyrimidine-4,6-diamine;
- 5 6-N-[(1R,2R)-2-aminocyclohexyl]-4-N-[(3-chloro-4-methylphenyl)methyl]-1-methylpyrazolo[3,4-d]pyrimidine-4,6-diamine;
- N6-[(2R)-2-amino-2-phenyl-ethyl]-N4-cyclopropyl-1-methyl-pyrazolo[3,4-d]pyrimidine-4,6-diamine;
- 10 N6-[(2R)-2-amino-2-phenyl-ethyl]-N4-(4-fluorophenyl)-1-methyl-pyrazolo[3,4-d]pyrimidine-4,6-diamine;
- N6-[(2S)-2-amino-2-phenyl-ethyl]-N4-(4-fluorophenyl)-1-methyl-pyrazolo[3,4-d]pyrimidine-4,6-diamine;
- N6-[(2S)-2-amino-2-phenyl-ethyl]-1-methyl-N4-(2,2,2-trifluoroethyl)pyrazolo[3,4-d]pyrimidine-4,6-diamine;
- 15 N6-[(2R)-2-amino-2-phenyl-ethyl]-1-methyl-N4-[6-(trifluoromethyl)-3-pyridyl]pyrazolo[3,4-d]pyrimidine-4,6-diamine;
- N6-[(2S)-2-amino-2-phenyl-ethyl]-1-methyl-N4-[6-(trifluoromethyl)-3-pyridyl]pyrazolo[3,4-d]pyrimidine-4,6-diamine;
- 20 rel-6-N-[(2S)-2-amino-2-phenylpropyl]-4-N,1-dimethylpyrazolo[3,4-d]pyrimidine-4,6-diamine;
- N6-[(2S)-2-amino-2-(2-fluorophenyl)ethyl]-N4-tert-butyl-1-methyl-pyrazolo[3,4-d]pyrimidine-4,6-diamine;
- N6-[(2R)-2-amino-2-(2-fluorophenyl)ethyl]-N4-tert-butyl-1-methyl-pyrazolo[3,4-d]pyrimidine-4,6-diamine;
- 25 rel-N6-[(2R)-2-amino-2-phenyl-propyl]-1-methyl-N4-[6-(trifluoromethyl)-3-pyridyl]pyrazolo[3,4-d]pyrimidine-4,6-diamine;
- 6-N-[(2R)-2-amino-3-fluoropropyl]-4-N-[(3-chloro-4-methylphenyl)methyl]-1-methylpyrazolo[3,4-d]pyrimidine-4,6-diamine;
- rel-N6-[(2S)-2-amino-2-phenyl-propyl]-1-methyl-N4-[6-(trifluoromethyl)-3-pyridyl]pyrazolo[3,4-d]pyrimidine-4,6-diamine;
- 30 N6-[(2R)-2-amino-2-(2-fluorophenyl)ethyl]-N4-tert-butyl-1-(trideuteriomethyl)pyrazolo[3,4-d]pyrimidine-4,6-diamine;
- N6-[(2S)-2-amino-2-(2-fluorophenyl)ethyl]-N4-tert-butyl-1-(trideuteriomethyl)pyrazolo[3,4-d]pyrimidine-4,6-diamine;
- 35 N6-[(2R)-2-amino-2-(4-fluorophenyl)ethyl]-N4-tert-butyl-1-methyl-1H-pyrazolo[3,4-d]pyrimidine-4,6-diamine;

N6-[(2R)-2-amino-2-(2-fluorophenyl)ethyl]-N4-tert-butyl-1-methyl-pyrazolo[3,4-d]pyrimidine-4,6-diamine;

N6-[(2R)-2-amino-2-(3,4-difluorophenyl)ethyl]-N4-tert-butyl-1-methyl-1H-pyrazolo[3,4-d]pyrimidine-4,6-diamine;

5 N6-[(2S)-2-amino-2-(3,4-difluorophenyl)ethyl]-N4-tert-butyl-1-methyl-1H-pyrazolo[3,4-d]pyrimidine-4,6-diamine;

N6-[(2R)-2-amino-2-cyclohexylethyl]-N4-tert-butyl-1-methyl-1H-pyrazolo[3,4-d]pyrimidine-4,6-diamine; and

10 N6-[(2S)-2-amino-2-cyclohexylethyl]-N4-tert-butyl-1-methyl-1H-pyrazolo[3,4-d]pyrimidine-4,6-diamine.

[0029c] In yet another aspect, the present disclosure refers to a pharmaceutical composition comprising a compound disclosed herein, or a pharmaceutically acceptable salt thereof, and one or more pharmaceutically acceptable excipients.

15 [0029d] In a further another aspect, the present disclosure refers to a compound disclosed herein, or a pharmaceutically acceptable salt thereof, or a pharmaceutical composition disclosed herein, for use in therapy.

[0029e] In another aspect, the present disclosure refers to a compound disclosed herein, or a pharmaceutically acceptable salt thereof, or a pharmaceutical composition disclosed herein, for use in the treatment of a proliferative condition.

20 [0029f] In yet another aspect, the present disclosure refers to a compound disclosed herein, or a pharmaceutically acceptable salt thereof, or a pharmaceutical composition disclosed herein, for use in the treatment of cancer or inflammation.

25 [0029g] In a further another aspect, the present disclosure refers to a compound disclosed herein, or a pharmaceutically acceptable salt thereof, or a pharmaceutical composition disclosed herein, for use in the treatment of breast cancer.

[0029h] In another aspect, the present disclosure refers to a compound disclosed herein, or a pharmaceutically acceptable salt thereof, or a pharmaceutical composition disclosed herein, for use in the inhibition and/or degradation of BCDIN3D activity.

30 [0029i] In yet another aspect, the present disclosure refers to a use of a compound disclosed herein, or a pharmaceutically acceptable salt thereof, or a pharmaceutical composition disclosed herein, in the manufacture of a medicament for the treatment of a proliferative condition.

[0029j] In a further another aspect, the present disclosure refers to a use of a compound disclosed herein, or a pharmaceutically acceptable salt thereof, or a pharmaceutical

composition disclosed herein, in the manufacture of a medicament for the treatment of cancer or inflammation.

[0029k] In another aspect, the present disclosure refers to a use of a compound disclosed herein, or a pharmaceutically acceptable salt thereof, or a pharmaceutical composition disclosed herein, in the manufacture of a medicament for the treatment of breast cancer.

[0029l] In yet another aspect, the present disclosure refers to a use of a compound disclosed herein, or a pharmaceutically acceptable salt thereof, or a pharmaceutical composition disclosed herein, in the manufacture of a medicament for the inhibition and/or degradation of BCDIN3D activity.

[0029m] In a further another aspect, the present disclosure refers to a method of inhibiting and/or degrading BCDIN3D activity *in vitro*, said method comprising contacting a cell with an effective amount of a compound disclosed herein, or a pharmaceutically acceptable salt thereof, or a pharmaceutical composition disclosed herein.

[0029n] In another aspect, the present disclosure refers to a method of inhibiting and/or degrading metastasis *in vitro*, said method comprising contacting a cell with an effective amount of a compound disclosed herein, or a pharmaceutically acceptable salt thereof, or a pharmaceutical composition disclosed herein.

[0029o] In yet another aspect, the present disclosure refers to a combination comprising a compound disclosed herein, or a pharmaceutically acceptable salt thereof, with one or more additional therapeutic agents.

[0029p] In a further aspect, the present disclosure refers to a use of a compound disclosed herein, or a pharmaceutically acceptable salt thereof, or a pharmaceutical composition disclosed herein, in the manufacture of a medicament for inhibiting and/or degrading BCDIN3D activity *in vivo*, wherein a cell is to be contacted with the compound, or the pharmaceutically acceptable salt thereof, or the pharmaceutical composition.

[0029q] In another aspect, the present disclosure refers to a use of a compound disclosed herein, or a pharmaceutically acceptable salt thereof, or a pharmaceutical composition disclosed herein, in the manufacture of a medicament for inhibiting and/or degrading metastasis *in vivo*, wherein a cell is to be contacted with the compound, or the pharmaceutically acceptable salt thereof, or the pharmaceutical composition.

[0030] In one ~~aspect~~example, the present ~~disclosure~~invention provides a compound as defined herein, or a pharmaceutically acceptable salt thereof.

[0031] In another ~~example~~aspect, the present ~~disclosure~~invention provides a pharmaceutical composition as defined herein which comprises a compound as defined herein, or a

pharmaceutically acceptable salt thereof, and one or more pharmaceutically acceptable excipients.

5 [0032] In another exampleaspect, the present disclosure invention provides a compound as defined herein, or a pharmaceutically acceptable salt thereof, or a pharmaceutical composition as defined herein, for use in therapy.

[0033] In another exampleaspect, the present disclosure invention provides a compound as defined herein, or a pharmaceutically acceptable salt thereof, or a pharmaceutical composition as defined herein, for use in the treatment of a proliferative condition.

10 [0034] In another exampleaspect, the present disclosure invention provides a compound as defined herein, or a pharmaceutically acceptable salt thereof, or a pharmaceutical composition as defined herein, for use in the treatment of cancer. In a particular exampleembodiment, the cancer is a human cancer.

15 [0035] In another exampleaspect, the present disclosure invention provides a compound as defined herein, or a pharmaceutically acceptable salt thereof, or a pharmaceutical composition as defined herein, for use in the treatment of a metabolic disease.

[0036] In another exampleaspect, the present disclosure invention provides a compound as defined herein, or a pharmaceutically acceptable salt thereof, or a pharmaceutical composition as defined herein, for use in the inhibition and/or degradation of BCDIN3D activity.

[0037] In another exampleaspect, the present disclosure invention provides the use of a compound as defined herein, or a pharmaceutically acceptable salt thereof, in the manufacture of a medicament for the treatment of a proliferative condition.

[0038] In another exampleaspect, the present disclosure invention provides the use of a compound as defined herein, or a pharmaceutically acceptable salt thereof, in the manufacture of a medicament for the treatment of cancer. In a particular exampleembodiment, the medicament is for use in the treatment of human cancers.

[0039] In another exampleaspect, the present disclosure invention provides the use of a compound as defined herein, or a pharmaceutically acceptable salt thereof, in the manufacture of a medicament for the treatment of a metabolic disease.

[0040] In another exampleaspect, the present disclosure invention provides the use of a compound as defined herein, or a pharmaceutically acceptable salt thereof, in the manufacture of a medicament for the inhibition and/or degradation of BCDIN3D activity.

[0041] In another exampleaspect, the present disclosure invention provides a method of inhibiting and/or degrading BCDIN3D activity *in vitro* or *in vivo*, said method comprising contacting a cell with an effective amount of a compound as defined herein, or a pharmaceutically acceptable salt thereof, or a pharmaceutical composition as defined herein.

[0042] In another exampleaspect, the present disclosure invention provides a method of inhibiting and/or degrading cell proliferation *in vitro* or *in vivo*, said method comprising contacting a cell with an effective amount of a compound as defined herein, or a pharmaceutically acceptable salt, or a pharmaceutical composition as defined herein.

[0043] In another exampleaspect, the present disclosure invention provides a method of inhibiting and/or degrading metastasis *in vitro* or *in vivo*, said method comprising contacting a cell with an effective amount of a compound as defined herein, or a pharmaceutically acceptable salt, or a pharmaceutical composition as defined herein.

[0044] In another exampleaspect, the present disclosure invention provides a method of treating a proliferative disorder, said method comprising administering to a subject in need thereof a therapeutically effective amount of a compound as defined herein, or a pharmaceutically acceptable salt, or a pharmaceutical composition as defined herein.

[0045] In another exampleaspect, the present disclosure invention provides a method of treating cancer, said method comprising administering to a subject in need thereof a therapeutically effective amount of a compound as defined herein, or a pharmaceutically acceptable salt, or a pharmaceutical composition as defined herein.

[0046] In another exampleaspect, the present disclosure invention provides a method of treating a metabolic disease, said method comprising administering to a subject in need thereof a therapeutically effective amount of a compound as defined herein, or a pharmaceutically acceptable salt, or a pharmaceutical composition as defined herein.

- 5 [0047] In one exampleaspect, the present disclosure invention provides a combination comprising a compound as defined herein, or a pharmaceutically acceptable salt thereof, with one or more additional therapeutic agents.

[0048] The present disclosure invention further provides a method of synthesising a compound, or a pharmaceutically acceptable salt, as defined herein.

- 10 [0049] In another exampleaspect, the present disclosure invention provides a compound as defined herein, or a pharmaceutically acceptable salt, obtainable by, or obtained by, or directly obtained by a method of synthesis as defined herein.

[0050] In another exampleaspect, the present disclosure invention provides novel intermediates as defined herein which are suitable for use in any one of the synthetic methods as set out herein.

- 15 [0051] Preferred, suitable, and optional features of any one particular exampleaspect of the present invention-disclosure are also preferred, suitable, and optional features of any other aspect.

BRIEF DESCRIPTION OF THE DRAWINGS

- [0052] For a better understanding of the invention, and to show how embodiments of the same are put into effect, reference is now made, by way of example, to the following figure, in
20 which:

Figure 1: Western Blot results from BCDIN3D degradation assay

Figure 2 shows qRT-PCR analysis of BCDIN3D expression in primary human CD4⁺ and CD8⁺ T-cells. The y-axis shows relative expression to TBP (TATA-box binding protein).

- Figure 3 shows the effect of BCDIN3D inhibitors (Compounds 4.53 and 4.30) on IFN γ production
25 by activated CD4⁺ T-cells in vitro.

Figure 4 shows the effect of BCDIN3D inhibitors (Compounds 4.53 and 4.30) in a delayed-type hypersensitivity *in vivo* model.

DETAILED DESCRIPTION OF THE INVENTION

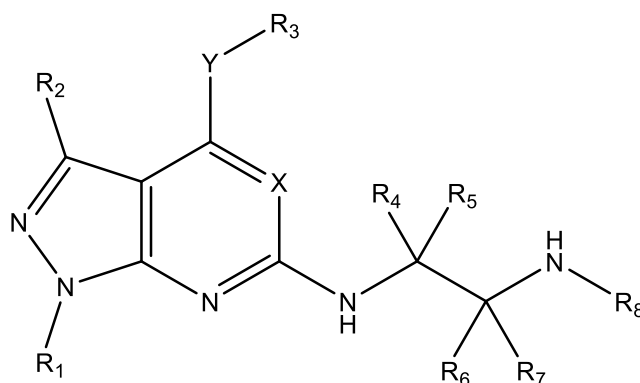
Definitions

- 30 [0053] Unless otherwise stated, the following terms used in the specification and claims have the following meanings set out below.

[0054] It is to be appreciated that references to “treating” or “treatment” include prophylaxis

CLAIMS

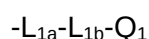
1. A compound of the formula (I), or a pharmaceutically acceptable salt thereof,



(I)

wherein:

- 5 R₁ is selected from methyl, ethyl, CH₂F, CHF₂, cyclopropyl, and CH₂CN wherein one or more hydrogen atoms in methyl, ethyl, CH₂F, CHF₂, cyclopropyl, and CH₂CN may be replaced by deuterium;
- R₂ is selected from hydrogen, C₁₋₂ alkyl, C₁₋₂haloalkyl, cyano, amino, halo, trifluoromethyl, trifluoromethoxy, hydroxy, carboxy, carbamoyl, sulphamoyl, NR_rR_s, OR_r,
 10 C(O)R_r, C(O)OR_r, OC(O)R_r, C(O)N(R_r)R_s, N(R_r)C(O)R_s, S(O)_aR_r (where a is 0, 1 or 2), SO₂N(R_r)R_s, N(R_r)SO₂R_s or (CH₂)_bNR_rR_s (where b is 1, 2 or 3), wherein R_r and R_s are each independently selected from hydrogen or C₁₋₂alkyl;
- R₃ is a group of the formula:



- 15 wherein

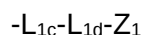
L_{1a} is absent or C₁₋₃alkylene, C₃₋₄cycloalkylene, optionally substituted by one or more substituents selected from C₁₋₂alkyl, halo, hydroxy, amino or oxo;

- L_{1b} is absent or selected from O, S, SO, SO₂, N(R_x), C(O), C(O)O, OC(O), C(O)N(R_x), N(R_x)C(O), N(R_x)C(O)N(R_y), S(O)₂N(R_x), or N(R_x)SO₂, wherein R_x and R_y are each
 20 independently selected from hydrogen or C₁₋₂alkyl; and

Q₁ is hydrogen, cyano, C₁₋₆alkyl, C₃₋₁₀carbocyclic, C₂₋₃alkenyl, C₂₋₃alkynyl, aryl, heterocyclyl or heteroaryl; wherein one or more hydrogen atoms in C₁₋₆alkyl may be replaced by deuterium; and wherein C₁₋₆alkyl, C₃₋₁₀carbocyclic, C₂₋₃alkenyl, C₂₋₃alkynyl, aryl, heterocyclyl or heteroaryl are optionally substituted by one or more substituents

selected from C₁₋₄alkyl, halo, trifluoromethyl, trifluoromethoxy, amino, cyano, hydroxy, carboxy, carbamoyl, sulphamoyl, NR_tR_u, OR_t, C(O)R_t, C(O)OR_t, OC(O)R_t, C(O)N(R_t)R_u, N(R_t)C(O)R_u, S(O)_yR_t (where y is 0, 1 or 2), SO₂N(R_t)R_u, N(R_t)SO₂R_u or (CH₂)_zNR_tR_u (where z is 1, 2 or 3); wherein R_t and R_u are each independently selected from hydrogen or C₁₋₄alkyl wherein the C₁₋₄alkyl is optionally substituted with one or more halo substituents or -L_{1c}-L_{1d}-Z₁ as defined below; or

Q₁ is optionally substituted by one or more groups of the formula:



wherein

L_{1c} is absent, C₁₋₃alkylene or O-C₁₋₃alkylene, wherein C₁₋₃alkylene or O-C₁₋₃alkylene are optionally substituted by C₁₋₂alkyl or oxo;

L_{1d} is absent or selected from O, C(O), C(O)O, OC(O), C(O)N(R_m), N(R_m)C(O), N(R_m)C(O)N(R_n), S(O)₂N(R_m), S(O)₂, or N(R_m)SO₂, wherein R_m and R_n are each independently selected from hydrogen or C₁₋₂alkyl; and

Z₁ is cyano, C₁₋₆alkyl, C₃₋₁₀carbocyclic, C₂₋₃alkenyl, C₂₋₃alkynyl, aryl, heterocyclyl or heteroaryl; and wherein C₁₋₆alkyl, C₃₋₁₀carbocyclic, C₂₋₃alkenyl, C₂₋₃alkynyl, aryl, heterocyclyl or heteroaryl are optionally substituted by one or more substituents selected from C₁₋₄alkyl, C₂₋₄alkynyl, halo, trifluoromethyl, trifluoromethoxy, amino, cyano, hydroxy, carboxy, carbamoyl, sulphamoyl, NR_vR_w, OR_v, C(O)R_v, C(O)OR_v, OC(O)R_v, C(O)N(R_v)R_w, N(R_v)C(O)R_w, S(O)_xR_v (where x is 0, 1 or 2), SO₂N(R_v)R_w, N(R_v)SO₂R_w or (CH₂)_sNR_vR_w (where s is 1, 2 or 3), wherein R_v and R_w are each independently selected from hydrogen or C₁₋₄alkyl;

R₄ is hydrogen;

R₅ is selected from hydrogen and C₁₋₄alkyl;

R₆ is selected from hydrogen and C₁₋₄ alkyl;

R₇ is selected from hydrogen, C₁₋₄alkyl, C₃₋₆cycloalkyl, heterocyclyl, heteroaryl and aryl, wherein C₁₋₄alkyl, C₃₋₆cycloalkyl, heterocyclyl, heteroaryl or aryl is optionally substituted with one or more substituents selected from C₁₋₄alkyl, C₂₋₃alkenyl, C₂₋₃alkynyl, halo, trifluoromethyl, trifluoromethoxy, amino, cyano, hydroxy, carboxy, carbamoyl, sulphamoyl, NR_pR_q, OR_p, C(O)R_p, C(O)OR_p, OC(O)R_p, C(O)N(R_p)R_q, N(R_p)C(O)R_q, S(O)_jR_p (where j is 0, 1 or 2), SO₂N(R_p)R_q, N(R_p)SO₂R_q or (CH₂)_kNR_pR_q (where k is 1, 2 or 3), wherein R_p and R_q are each independently selected from hydrogen or C₁₋₄alkyl;

R₈ is selected from hydrogen or C₁₋₄alkyl;

or R₆ and R₇ may be linked together to form a 3-, 4-, 5-, or 6-membered carbocyclic or heterocyclic ring system, wherein the 3-, 4-, 5-, or 6-membered carbocyclic or heterocyclic ring system is optionally substituted with one or more substituents selected from C₁₋₂alkyl,

5 C₁₋₂alkoxy, C₁₋₂haloalkyl, halo, and cyano;

or R₅ and R₇ may be linked together to form a 5- or 6-membered carbocyclic or heterocyclic ring system wherein the 5- or 6-membered carbocyclic or heterocyclic ring system is optionally substituted with one or more substituents selected from C₁₋₂alkyl, C₁₋₂alkoxy, C₁₋₂haloalkyl, halo, and cyano;

10 or R₇ and R₈ may be linked together to form a 4-, 5-, 6- or 7-membered heterocyclic ring system wherein the 4-, 5-, 6- or 7-membered heterocyclic ring system is optionally substituted with one or more substituents selected from C₁₋₂alkyl, C₁₋₂alkoxy, C₁₋₂haloalkyl, halo, and cyano;

X is selected from N and CR₉;

15 R₉ is selected from hydrogen, methyl, and fluoro;

Y is selected from O and NR₁₀; and

R₁₀ is selected from hydrogen and C₁₋₄alkyl;

or R₃ and R₁₀ may be linked together to form a 4-, 5-, 6- or 7- membered heterocyclic ring system.

20

2. A compound according to claim 1, or a pharmaceutically acceptable salt thereof, wherein R₅ is C₁₋₄ alkyl, R₆ is hydrogen and R₇ is hydrogen.

25 3. A compound according to claim 1, or a pharmaceutically acceptable salt thereof, wherein R₅ is hydrogen.

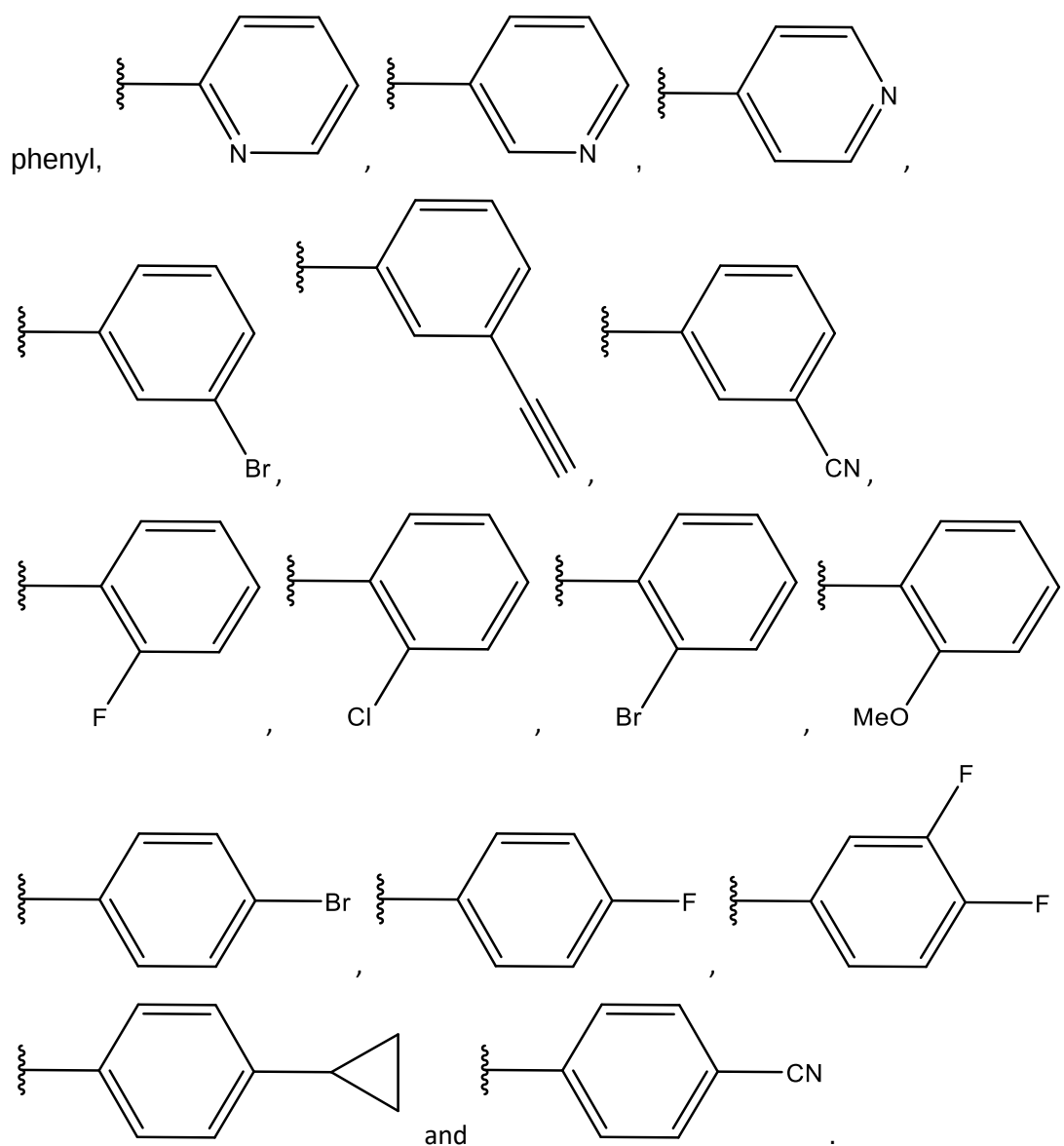
4. A compound according to claim 1, or a pharmaceutically acceptable salt thereof, wherein either:

30 R₆ is hydrogen and R₇ is hydrogen, methyl, ethyl, cyclopropyl, cyclohexyl, pyridyl, and phenyl, wherein methyl, cyclopropyl, cyclohexyl, pyridyl or phenyl is optionally substituted with one or more substituents selected from methyl, ethynyl,

fluoro, chloro, bromo, cyano and OR_p, wherein R_p is independently selected from hydrogen or methyl;

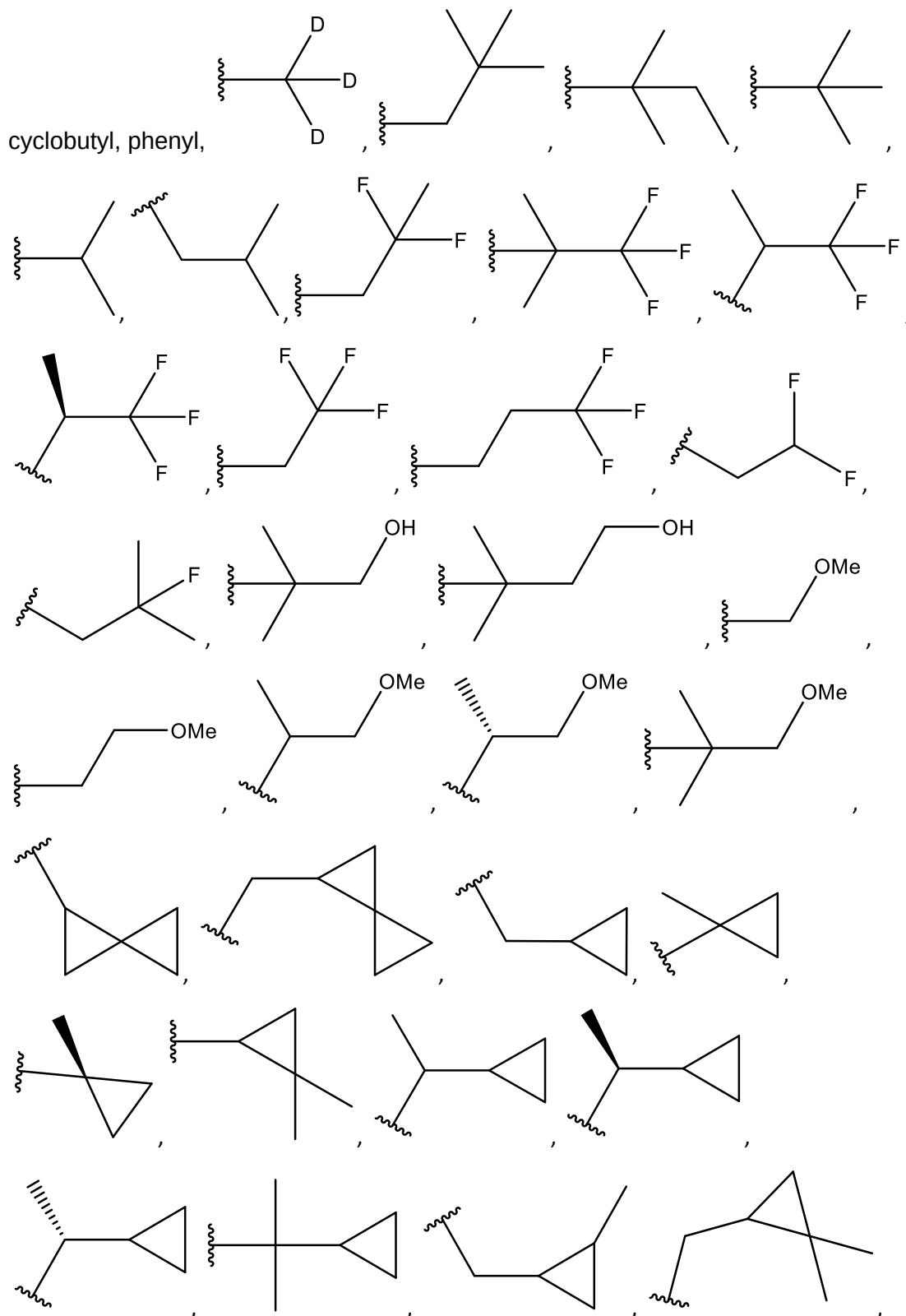
or R₆ and R₇ are linked together to form a 3-, 4-, 5-, or 6-membered carbocyclic or heterocyclic ring system, wherein the 3-, 4-, 5-, or 6-membered carbocyclic or heterocyclic ring system is optionally substituted with one or more substituents selected from C₁₋₂alkyl, C₁₋₂alkoxy, C₁₋₂haloalkyl, halo, and cyano.

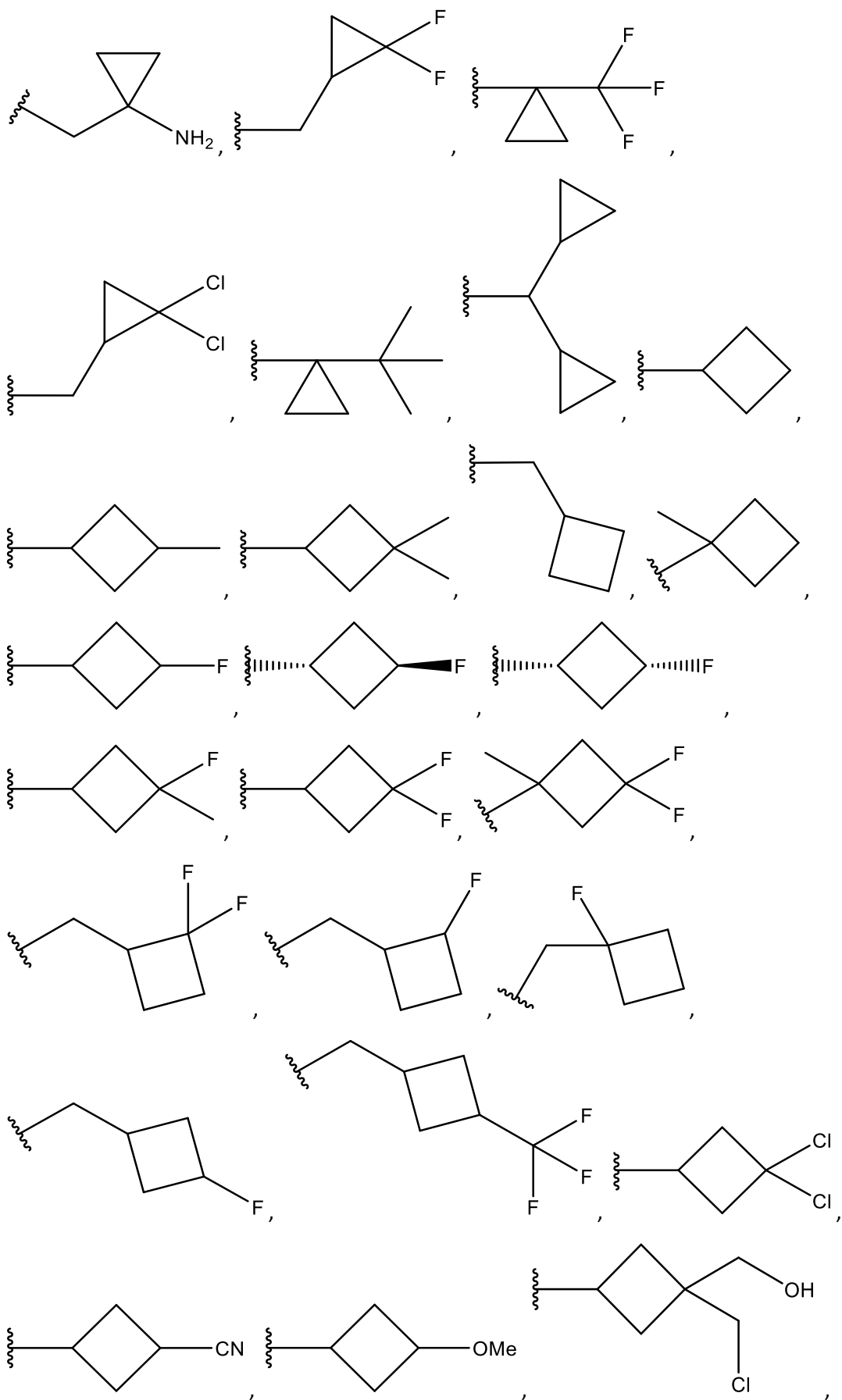
5. A compound according to claim 4, or a pharmaceutically acceptable salt thereof, wherein R₆ is hydrogen and R₇ is selected from hydrogen, methyl optionally substituted with fluoro or OMe, ethyl, -CH₂F, -CH₂OMe, cyclopropyl, cyclohexyl,



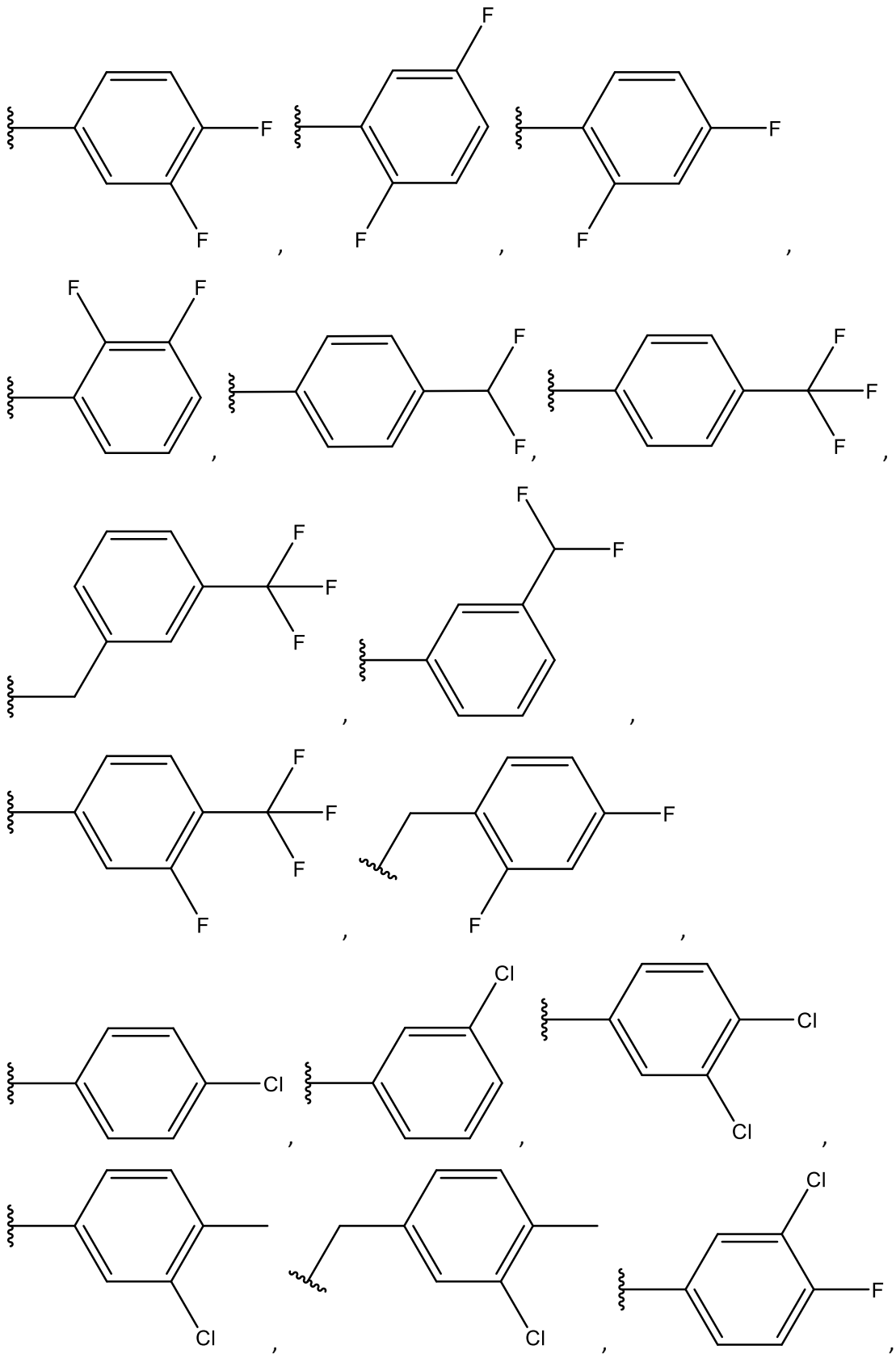
6. A compound according to claim 4, wherein R₆ and R₇ are linked together to form a 3-, 4-, 5-, or 6-membered carbocyclic ring system, wherein the 3-, 4-, 5-, or 6-membered carbocyclic heterocyclic ring system is optionally substituted with one or more fluoro.
- 5 7. A compound according to claim 1, or a pharmaceutically acceptable salt thereof, wherein R₆ is hydrogen, and R₅ and R₇ are linked together to form a 5- or 6-membered carbocyclic or heterocyclic ring system wherein the 5- or 6-membered carbocyclic or heterocyclic ring system is optionally substituted with one or more substituents selected from C₁₋₂alkyl, C₁₋₂alkoxy, C₁₋₂haloalkyl, halo, and cyano.
- 10 8. A compound according to claim 1, or a pharmaceutically acceptable salt thereof, wherein R₅ is hydrogen, and R₆ and R₇ are linked together to form a 3-, 4-, 5-, or 6-membered carbocyclic or heterocyclic ring system, wherein the 3-, 4-, 5-, or 6-membered carbocyclic or heterocyclic ring system is optionally substituted with one
15 or more substituents selected from C₁₋₂alkyl, C₁₋₂alkoxy, C₁₋₂haloalkyl, halo, and cyano.
9. A compound according to claim 8, or a pharmaceutically acceptable salt thereof, wherein R₅ is hydrogen, and R₆ and R₇ are linked together to form a cyclopropyl ring
20 system.
10. A compound according to claim 1, or a pharmaceutically acceptable salt thereof, wherein R₅ is hydrogen, and R₇ and R₈ are linked together to form a 4-, 5-, 6- or 7-membered heterocyclic ring system wherein the 4-, 5-, 6- or 7-membered heterocyclic
25 ring system is optionally substituted with one or more substituents selected from C₁₋₂alkyl, C₁₋₂alkoxy, C₁₋₂haloalkyl, halo, and cyano.
11. A compound according to any preceeding claims, or a pharmaceutically acceptable salt thereof, wherein R₁ is methyl.
30
12. A compound according to any preceeding claims, or a pharmaceutically acceptable salt thereof, wherein R₂ is hydrogen.
13. A compound according to any preceeding claims, or a pharmaceutically acceptable
35 salt thereof, wherein Y is NR₁₀ and R₁₀ is hydrogen..

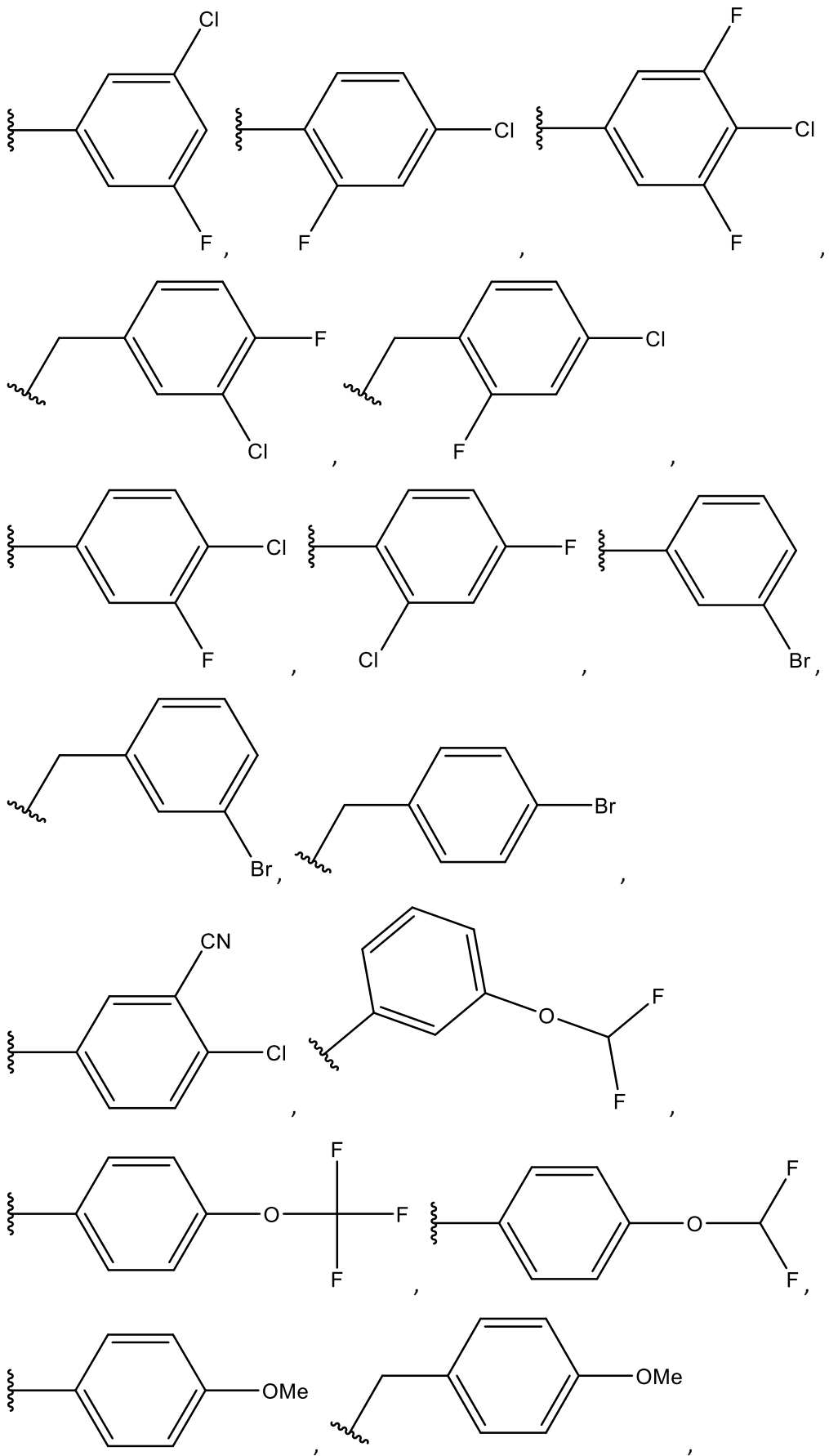
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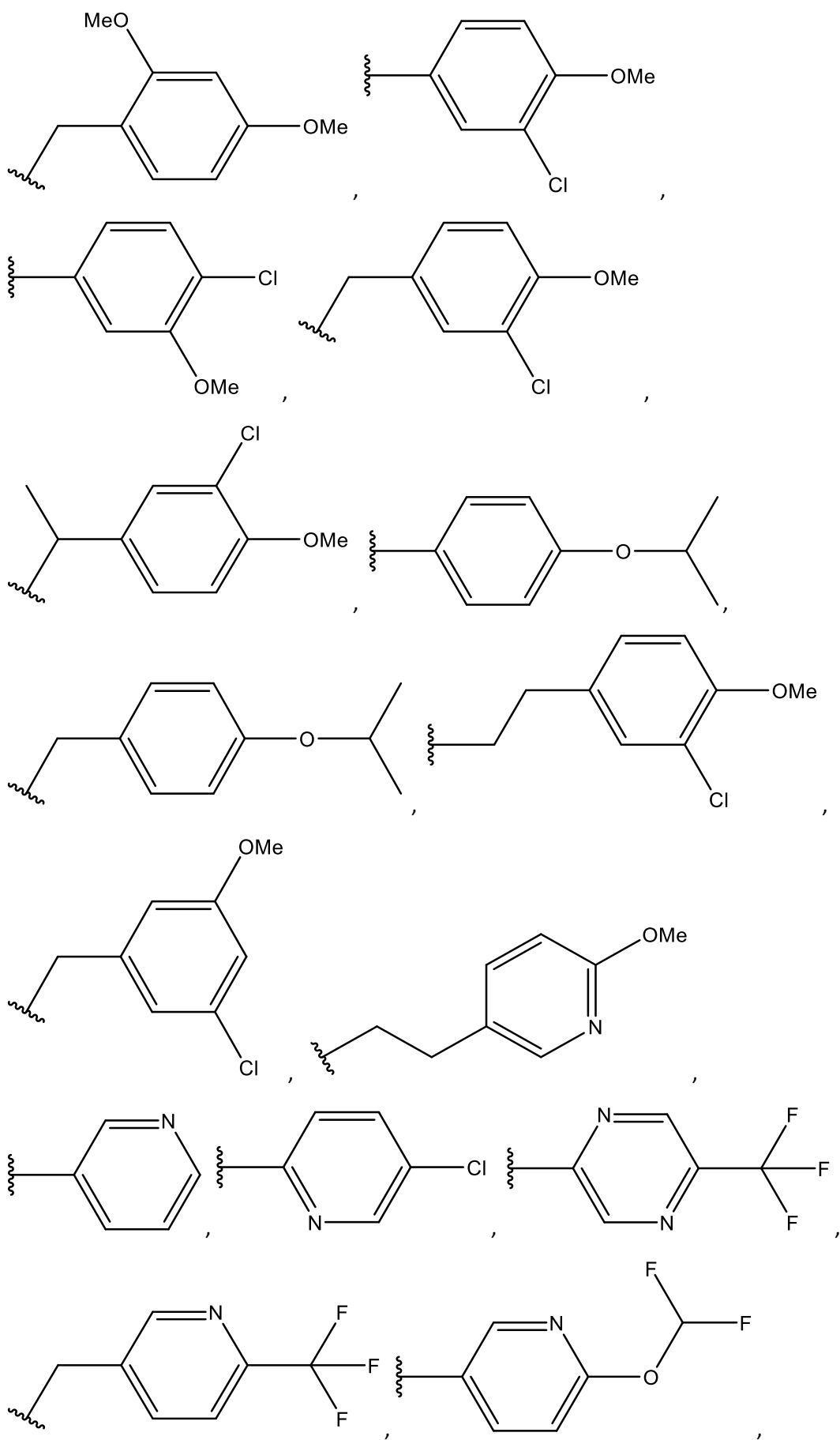


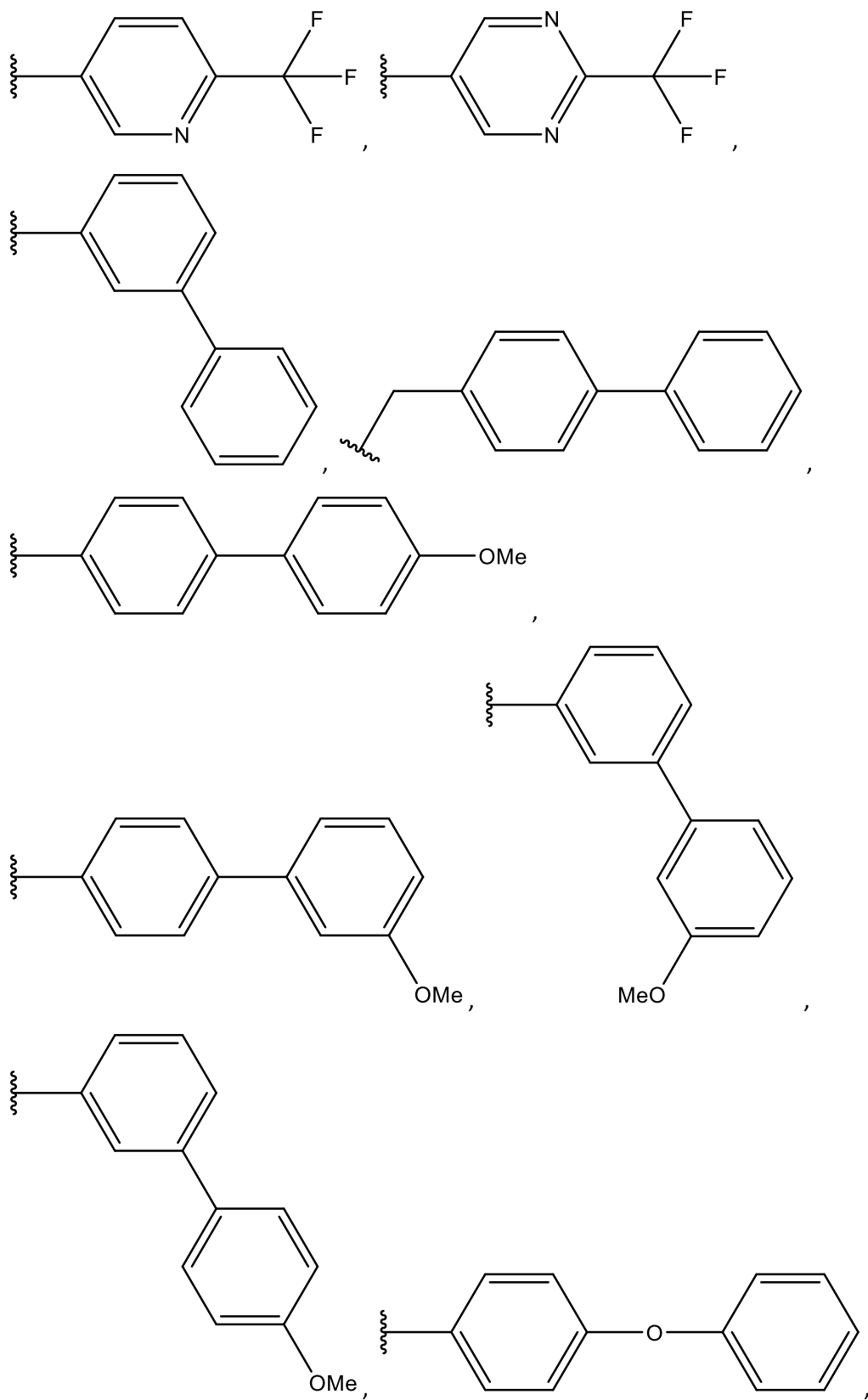


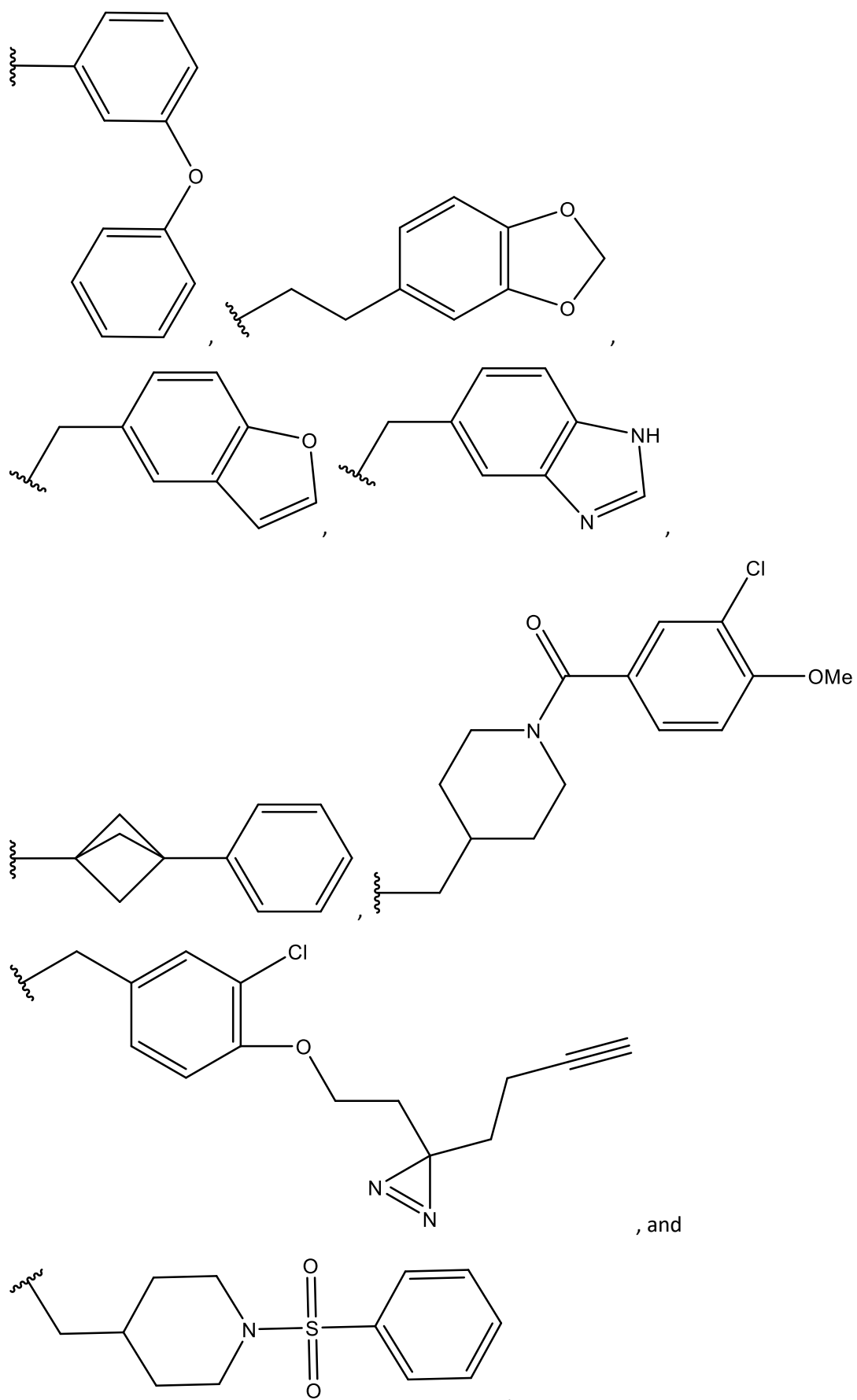












16. A compound, or a pharmaceutically acceptable salt thereof, selected from any one of the following:

N6-(2-Aminoethyl)-1-methyl-N4-[4-(trifluoromethyl)phenyl]pyrazolo[3,4-d]pyrimidine-4,6-diamine;

5 N6-(2-aminoethyl)-1-methyl-N4-[3-(trifluoromethyl)phenyl]-1H-pyrazolo[3,4-d]pyrimidine-4,6-diamine;

N6-(2-aminoethyl)-1-methyl-N4-(4-phenoxyphenyl)-1H-pyrazolo[3,4-d]pyrimidine-4,6-diamine;

10 N6-(2-aminoethyl)-1-methyl-N4-(3-phenoxyphenyl)-1H-pyrazolo[3,4-d]pyrimidine-4,6-diamine;

N6-(2-aminoethyl)-1-methyl-N4-[(4-phenylphenyl)methyl]pyrazolo[3,4-d]pyrimidine-4,6-diamine;

N6-(2-aminoethyl)-N4-[1-(3-chloro-4-methoxyphenyl)ethyl]-1-methyl-1H-pyrazolo[3,4-d]pyrimidine-4,6-diamine;

15 N6-(2-aminoethyl)-N4-[2-(6-methoxypyridin-3-yl)ethyl]-1-methyl-1H-pyrazolo[3,4-d]pyrimidine-4,6-diamine;

N6-(2-aminoethyl)-N4-[2-(3-chloro-4-methoxyphenyl)ethyl]-1-methyl-1H-pyrazolo[3,4-d]pyrimidine-4,6-diamine;

20 N6-(2-aminoethyl)-N4-[2-(2H-1,3-benzodioxol-5-yl)ethyl]-1-methyl-1H-pyrazolo[3,4-d]pyrimidine-4,6-diamine;

N6-(2-aminoethyl)-N4-[(1-benzofuran-5-yl)methyl]-1-methyl-1H-pyrazolo[3,4-d]pyrimidine-4,6-diamine;

N6-(2-aminoethyl)-N4-{3'-methoxy-[1,1'-biphenyl]-3-yl}-1-methyl-1H-pyrazolo[3,4-d]pyrimidine-4,6-diamine;

25 N6-(2-aminoethyl)-N4-{[1-(benzenesulfonyl)piperidin-4-yl]methyl}-1-methyl-1H-pyrazolo[3,4-d]pyrimidine-4,6-diamine;

N6-(2-aminoethyl)-N4-[(1H-1,3-benzodiazol-5-yl)methyl]-1-methyl-1H-pyrazolo[3,4-d]pyrimidine-4,6-diamine;

30 N6-(2-aminoethyl)-N4-{3'-methoxy-[1,1'-biphenyl]-4-yl}-1-methyl-1H-pyrazolo[3,4-d]pyrimidine-4,6-diamine;

N6-(2-aminoethyl)-N4-{4'-methoxy-[1,1'-biphenyl]-3-yl}-1-methyl-1H-pyrazolo[3,4-d]pyrimidine-4,6-diamine;

N6-(2-aminoethyl)-N4-{[1,1'-biphenyl]-3-yl}-1-methyl-1H-pyrazolo[3,4-d]pyrimidine-4,6-diamine;

35 N6-(2-aminoethyl)-N4-[(3-chloro-4-fluorophenyl)methyl]-1-methyl-1H-pyrazolo[3,4-d]pyrimidine-4,6-diamine;

- N6-(2-aminoethyl)-N4-[(4-chloro-2-fluorophenyl)methyl]-1-methyl-1H-pyrazolo[3,4-d]pyrimidine-4,6-diamine;
- N6-(2-aminoethyl)-N4-[(2,4-difluorophenyl)methyl]-1-methyl-1H-pyrazolo[3,4-d]pyrimidine-4,6-diamine;
- 5 N6-(2-aminoethyl)-N4-[(3-chloro-5-methoxyphenyl)methyl]-1-methyl-1H-pyrazolo[3,4-d]pyrimidine-4,6-diamine;
- N6-(2-aminoethyl)-N4-(3-chloro-4-methoxyphenyl)-1-methyl-1H-pyrazolo[3,4-d]pyrimidine-4,6-diamine;
- 10 N6-(2-aminoethyl)-N4-[(3-chloro-4-methylphenyl)methyl]-1-methyl-1H-pyrazolo[3,4-d]pyrimidine-4,6-diamine;
- N6-(2-aminoethyl)-1-methyl-N4-[[3-(trifluoromethyl)phenyl]methyl]-1H-pyrazolo[3,4-d]pyrimidine-4,6-diamine;
- N6-(2-aminoethyl)-N4-[(2,4-dimethoxyphenyl)methyl]-1-methyl-1H-pyrazolo[3,4-d]pyrimidine-4,6-diamine;
- 15 N6-(2-aminoethyl)-N4-[(3-chloro-4-methoxyphenyl)methyl]-1-methyl-1H-pyrazolo[3,4-d]pyrimidine-4,6-diamine;
- N6-(2-amino-2-methylpropyl)-N4-[(3-chloro-4-methoxyphenyl)methyl]-1-methyl-1H-pyrazolo[3,4-d]pyrimidine-4,6-diamine;
- N6-(2-amino-2-methylpropyl)-N4-[(4-methoxyphenyl)methyl]-1-methyl-1H-pyrazolo[3,4-d]pyrimidine-4,6-diamine;
- 20 N6-(2-amino-2-methylpropyl)-N4-([1,1'-biphenyl]-4-yl)methyl)-1-methyl-1H-pyrazolo[3,4-d]pyrimidine-4,6-diamine;
- N6-(2-aminoethyl)-N4-[(3-chloro-4-methoxyphenyl)methyl]-1,3-dimethyl-1H-pyrazolo[3,4-d]pyrimidine-4,6-diamine;
- 25 N6-(2-amino-2-methylpropyl)-N4-[(3-chloro-4-methoxyphenyl)methyl]-1,3-dimethyl-1H-pyrazolo[3,4-d]pyrimidine-4,6-diamine;
- N6-(2-amino-2-methylpropyl)-N4-([1,1'-biphenyl]-4-yl)methyl)-1,3-dimethyl-1H-pyrazolo[3,4-d]pyrimidine-4,6-diamine;
- 30 N6-[(1-aminocyclohexyl)methyl]-1-methyl-N4-[4-(trifluoromethyl)phenyl]pyrazolo[3,4-d]pyrimidine-4,6-diamine;
- N6-(2-amino-2-methylpropyl)-1,3-dimethyl-N4-[3-(trifluoromethyl)phenyl]-1H-pyrazolo[3,4-d]pyrimidine-4,6-diamine;
- 6-N-(2-aminocyclohexyl)-4-N-[(3-chloro-4-methylphenyl)methyl]-1-methylpyrazolo[3,4-d]pyrimidine-4,6-diamine;
- 35 6-N-[(4-aminooxan-4-yl)methyl]-1-methyl-4-N-[6-(trifluoromethyl)pyridin-3-yl]pyrazolo[3,4-d]pyrimidine-4,6-diamine;

- N6-[(3R,4S)-4-aminotetrahydrofuran-3-yl]-1-methyl-N4-[4-(trifluoromethyl)phenyl]pyrazolo[3,4-d]pyrimidine-4,6-diamine;
- N6-(2-aminoethyl)-N4-[(4-methoxyphenyl)methyl]-1-methyl-1H-pyrazolo[3,4-d]pyrimidine-4,6-diamine;
- 5 tert-butyl 4-[(6-[(2-aminoethyl)amino]-1-methyl-1H-pyrazolo[3,4-d]pyrimidin-4-yl)amino)methyl]piperidine-1-carboxylate;
- N6-(2-aminoethyl)-N4-[(1-benzylpiperidin-4-yl)methyl]-1-methyl-1H-pyrazolo[3,4-d]pyrimidine-4,6-diamine;
- N6-(2-aminoethyl)-N4-[(1-benzoylpiperidin-4-yl)methyl]-1-methyl-1H-pyrazolo[3,4-d]pyrimidine-4,6-diamine;
- 10 N6-(2-aminoethyl)-N4-[(1-(3-chloro-4-methoxybenzoyl)piperidin-4-yl)methyl]-1-methyl-1H-pyrazolo[3,4-d]pyrimidine-4,6-diamine;
- 6-N-(2-Amino-2-methylpropyl)-1,3-dimethyl-4-N-[[3-(trifluoromethyl)phenyl]methyl]pyrazolo[3,4-b]pyridine-4,6-diamine;
- 15 6-N-[(1-Aminocyclopropyl)methyl]-4-N-[(3-chloro-4-methylphenyl)methyl]-1-methylpyrazolo[3,4-d]pyrimidine-4,6-diamine;
- 6-N-[(1-Aminocyclopropyl)methyl]-4-N-[(3-chloro-4-fluorophenyl)methyl]-1-methylpyrazolo[3,4-d]pyrimidine-4,6-diamine;
- N6-[(1-aminocyclopropyl)methyl]-N4-[3-fluoro-4-(trifluoromethyl)phenyl]-1-methylpyrazolo[3,4-d]pyrimidine-4,6-diamine;
- 20 6-N-[(1-aminocyclopropyl)methyl]-4-N-(3-chloro-4-methoxyphenyl)-1-methylpyrazolo[3,4-d]pyrimidine-4,6-diamine;
- 6-N-[(1-aminocyclopropyl)methyl]-4-N-(2,4-difluorophenyl)-1-methylpyrazolo[3,4-d]pyrimidine-4,6-diamine;
- 25 6-N-[(1-aminocyclopropyl)methyl]-1-methyl-4-N-[3-(trifluoromethyl)phenyl]pyrazolo[3,4-d]pyrimidine-4,6-diamine;
- 6-N-[(1-aminocyclopropyl)methyl]-4-N-[3-(difluoromethyl)phenyl]-1-methylpyrazolo[3,4-d]pyrimidine-4,6-diamine;
- 6-N-[(1-aminocyclopropyl)methyl]-4-N-(4-fluorophenyl)-1-methylpyrazolo[3,4-d]pyrimidine-4,6-diamine;
- 30 6-N-[(1-aminocyclopropyl)methyl]-4-N-(3-chloro-4-methylphenyl)-1-methylpyrazolo[3,4-d]pyrimidine-4,6-diamine;
- 6-N-[(1-aminocyclopropyl)methyl]-1-methyl-4-N-pyridin-3-ylpyrazolo[3,4-d]pyrimidine-4,6-diamine;
- 35 6-N-[(1-aminocyclopropyl)methyl]-1-methyl-4-N-phenylpyrazolo[3,4-d]pyrimidine-4,6-diamine;

- 6-N-[(1-aminocyclopropyl)methyl]-4-N-[(3-bromophenyl)methyl]-1-methylpyrazolo[3,4-d]pyrimidine-4,6-diamine;
- 6-N-[(1-aminocyclopropyl)methyl]-4-N-[(4-bromophenyl)methyl]-1-methylpyrazolo[3,4-d]pyrimidine-4,6-diamine;
- 5 6-N-[(1-aminocyclopropyl)methyl]-4-N-(2-chloro-4-fluorophenyl)-1-methylpyrazolo[3,4-d]pyrimidine-4,6-diamine;
- 6-N-[(1-aminocyclopropyl)methyl]-4-N-(4-chloro-2-fluorophenyl)-1-methylpyrazolo[3,4-d]pyrimidine-4,6-diamine;
- 10 6-N-[(1-aminocyclopropyl)methyl]-4-N-(3-chloro-5-fluorophenyl)-1-methylpyrazolo[3,4-d]pyrimidine-4,6-diamine;
- 5-[[6-[(1-aminocyclopropyl)methylamino]-1-methyl-pyrazolo[3,4-d]pyrimidin-4-yl]amino]-2-chloro-benzonitrile;
- N6-[(1-aminocyclopropyl)methyl]-1-methyl-N4-(1-phenyl-3-bicyclo[1.1.1]pentanyl)pyrazolo[3,4-d]pyrimidine-4,6-diamine;
- 15 6-N-[(1-aminocyclopropyl)methyl]-1-methyl-4-N-[[6-(trifluoromethyl)pyridin-3-yl]methyl]pyrazolo[3,4-d]pyrimidine-4,6-diamine;
- 6-N-[(1-aminocyclopropyl)methyl]-4-N-(4-chloro-3,5-difluorophenyl)-1-methylpyrazolo[3,4-d]pyrimidine-4,6-diamine;
- 20 6-N-[(1-aminocyclopropyl)methyl]-4-N-[3-(difluoromethoxy)phenyl]-1-methylpyrazolo[3,4-d]pyrimidine-4,6-diamine;
- 6-N-[(1-aminocyclopropyl)methyl]-1-methyl-4-N-(4-propan-2-yloxyphenyl)pyrazolo[3,4-d]pyrimidine-4,6-diamine;
- 6-N-[(1-aminocyclopropyl)methyl]-4-N-[(4-chloro-3-fluorophenyl)methyl]-1-methylpyrazolo[3,4-d]pyrimidine-4,6-diamine;
- 25 6-N-[(1-aminocyclopropyl)methyl]-4-N-(2,3-difluorophenyl)-1-methylpyrazolo[3,4-d]pyrimidine-4,6-diamine;
- 6-N-[(1-aminocyclopropyl)methyl]-4-N-(2,5-difluorophenyl)-1-methylpyrazolo[3,4-d]pyrimidine-4,6-diamine;
- 6-N-[(1-aminocyclopropyl)methyl]-4-N-[(2,4-difluorophenyl)methyl]-1-methylpyrazolo[3,4-d]pyrimidine-4,6-diamine;
- 30 6-N-[(1-aminocyclopropyl)methyl]-4-N-(3-chloro-4-fluorophenyl)-1-methylpyrazolo[3,4-d]pyrimidine-4,6-diamine;
- 6-N-[(1-aminocyclopropyl)methyl]-4-N-(4-chlorophenyl)-1-methylpyrazolo[3,4-d]pyrimidine-4,6-diamine;
- 35 6-N-[(1-aminocyclopropyl)methyl]-4-N-(3-fluorophenyl)-1-methylpyrazolo[3,4-d]pyrimidine-4,6-diamine;

- 6-N-[(1-aminocyclopropyl)methyl]-1,3-dimethyl-4-N-[4-(trifluoromethyl)phenyl]pyrazolo[3,4-d]pyrimidine-4,6-diamine;
4-[[6-[(1-aminocyclopropyl)methylamino]-1-methylpyrazolo[3,4-d]pyrimidin-4-yl]amino]benzonitrile;
- 5 6-N-[(1-aminocyclopropyl)methyl]-1-methyl-4-N-[4-(trifluoromethoxy)phenyl]pyrazolo[3,4-d]pyrimidine-4,6-diamine;
6-N-[(1-aminocyclopropyl)methyl]-4-N-(4-methoxyphenyl)-1-methylpyrazolo[3,4-d]pyrimidine-4,6-diamine;
- 10 6-N-[(1-aminocyclopropyl)methyl]-4-N-[4-(difluoromethoxy)phenyl]-1-methylpyrazolo[3,4-d]pyrimidine-4,6-diamine;
6-N-[(1-aminocyclopropyl)methyl]-4-N-(3-chlorophenyl)-1-methylpyrazolo[3,4-d]pyrimidine-4,6-diamine;
6-N-[(1-aminocyclopropyl)methyl]-4-N-[4-(difluoromethyl)phenyl]-1-methylpyrazolo[3,4-d]pyrimidine-4,6-diamine;
- 15 3-[[6-[(1-aminocyclopropyl)methylamino]-1-methylpyrazolo[3,4-d]pyrimidin-4-yl]amino]bicyclo[1.1.1]pentane-1-carbonitrile;
6-N-[(1-aminocyclopropyl)methyl]-4-N-(3-bicyclo[1.1.1]pentanyl)-1-methylpyrazolo[3,4-d]pyrimidine-4,6-diamine;
6-N-[(1-aminocyclopropyl)methyl]-4-N-(3,4-difluorophenyl)-1-methylpyrazolo[3,4-d]pyrimidine-4,6-diamine;
- 20 6-N-[(1-aminocyclopropyl)methyl]-4-N-(3,4-dichlorophenyl)-1-methylpyrazolo[3,4-d]pyrimidine-4,6-diamine;
6-N-[(1-aminocyclopropyl)methyl]-4-N-(4-chloro-3-methoxyphenyl)-1-methylpyrazolo[3,4-d]pyrimidine-4,6-diamine;
- 25 N6-[(1-aminocyclopropyl)methyl]-N4-[(2,4-dimethoxyphenyl)methyl]-1-methylpyrazolo[3,4-d]pyrimidine-4,6-diamine;
N6-[(1-aminocyclopropyl)methyl]-N4-{3-fluorobicyclo[1.1.1]pentan-1-yl}-1-methyl-1H-pyrazolo[3,4-d]pyrimidine-4,6-diamine;
- 30 6-N-[(1-aminocyclopropyl)methyl]-1-methyl-4-N-[4-(trifluoromethyl)phenyl]pyrazolo[3,4-d]pyrimidine-4,6-diamine;
6-N-[(1-aminocyclopropyl)methyl]-1-methyl-4-N-[6-(trifluoromethyl)pyridin-3-yl]pyrazolo[3,4-d]pyrimidine-4,6-diamine;
6-N-[(1-aminocyclopropyl)methyl]-4-N-(5-chloropyridin-2-yl)-1-methylpyrazolo[3,4-d]pyrimidine-4,6-diamine;
- 35 N6-[(1-aminocyclopropyl)methyl]-1-methyl-N4-[5-(trifluoromethyl)pyrazin-2-yl]pyrazolo[3,4-d]pyrimidine-4,6-diamine;

6-N-[(1-aminocyclopropyl)methyl]-1-ethyl-4-N-[4-(trifluoromethyl)phenyl]pyrazolo[3,4-d]pyrimidine-4,6-diamine;

N6-[(1-aminocyclopropyl)methyl]-1-(trideuteriomethyl)-N4-[4-(trifluoromethyl)phenyl]pyrazolo[3,4-d]pyrimidine-4,6-diamine;

5 N6-[(1-aminocyclopropyl)methyl]-1-(trideuteriomethyl)-N4-[6-(trifluoromethyl)-3-pyridyl]pyrazolo[3,4-d]pyrimidine-4,6-diamine;

6-N-[(1-aminocyclopropyl)methyl]-4-N-[[4-[2-(3-but-3-ynyldiazirin-3-yl)ethoxy]-3-chlorophenyl]methyl]-1-methylpyrazolo[3,4-d]pyrimidine-4,6-diamine

Compound 2.52: N6-[(1-Aminocyclopropyl)methyl]-1-methyl-N4-[4-
10 ;(trifluoromethyl)phenyl]pyrazolo[3,4-b]pyridine-4,6-diamine;
6-N-(2-aminopropyl)-4-N-[(3-chloro-4-methylphenyl)methyl]-1-methylpyrazolo[3,4-d]pyrimidine-4,6-diamine;

6-N-(1-aminopropan-2-yl)-4-N-[(3-chloro-4-methylphenyl)methyl]-1-methylpyrazolo[3,4-d]pyrimidine-4,6-diamine;

15 6-N-[(2S)-2-aminopropyl]-4-N-[(3-chloro-4-methylphenyl)methyl]-1-methylpyrazolo[3,4-d]pyrimidine-4,6-diamine;

6-N-[(2R)-2-aminopropyl]-4-N-[(3-chloro-4-methylphenyl)methyl]-1-methylpyrazolo[3,4-d]pyrimidine-4,6-diamine;

20 6-N-[(2S)-1-aminobutyl]-4-N-[(3-chloro-4-methylphenyl)methyl]-1-methylpyrazolo[3,4-d]pyrimidine-4,6-diamine;

6-N-[(2S)-2-aminobutyl]-4-N-[(3-chloro-4-methylphenyl)methyl]-1-methylpyrazolo[3,4-d]pyrimidine-4,6-diamine;

6-N-[(2R)-2-aminobutyl]-4-N-[(3-chloro-4-methylphenyl)methyl]-1-methylpyrazolo[3,4-d]pyrimidine-4,6-diamine;

25 N6-[(1-aminocyclobutyl)methyl]-1-methyl-N4-[4-(trifluoromethyl)phenyl]pyrazolo[3,4-d]pyrimidine-4,6-diamine;

N6-[(1-aminocyclobutyl)methyl]-N4-[4-(difluoromethoxy)phenyl]-1-methylpyrazolo[3,4-d]pyrimidine-4,6-diamine;

30 N6-(2-amino-2-cyclohexyl-ethyl)-N4-tert-butyl-1-methyl-pyrazolo[3,4-d]pyrimidine-4,6-diamine;

N6-(2-amino-2-cyclohexyl-ethyl)-1-methyl-N4-[4-(trifluoromethyl)phenyl]pyrazolo[3,4-d]pyrimidine-4,6-diamine;

6-N-[(1-amino-3,3-difluorocyclobutyl)methyl]-1-methyl-4-N-[4-(trifluoromethyl)phenyl]pyrazolo[3,4-d]pyrimidine-4,6-diamine;

35 6-N-(2-amino-2-cyclopropylethyl)-1-methyl-4-N-[4-(trifluoromethyl)phenyl]pyrazolo[3,4-d]pyrimidine-4,6-diamine;

- 6-N-[(3-aminooxolan-3-yl)methyl]-1-methyl-4-N-[4-(trifluoromethyl)phenyl]pyrazolo[3,4-d]pyrimidine-4,6-diamine;
 N6-[(3-aminotetrahydrofuran-3-yl)methyl]-1-methyl-N4-[6-(trifluoromethyl)-3-pyridyl]pyrazolo[3,4-d]pyrimidine-4,6-diamine;
- 5 1-methyl-N6-[(morpholin-3-yl)methyl]-N4-[4-(trifluoromethyl)phenyl]-1H-pyrazolo[3,4-d]pyrimidine-4,6-diamine;
 4-N-[(3-chloro-4-methylphenyl)methyl]-1-methyl-6-N-[(2R)-pyrrolidin-2-yl]methyl]pyrazolo[3,4-d]pyrimidine-4,6-diamine;
- 10 6-N-[(1-aminocyclopentyl)methyl]-1-methyl-4-N-[4-(trifluoromethyl)phenyl]pyrazolo[3,4-d]pyrimidine-4,6-diamine;
 6-N-[(1-aminocyclopentyl)methyl]-1-methyl-4-N-[6-(trifluoromethyl)pyridin-3-yl]pyrazolo[3,4-d]pyrimidine-4,6-diamine;
 6-N-[(1-aminocyclopentyl)methyl]-4-N-[4-(difluoromethoxy)phenyl]-1-methylpyrazolo[3,4-d]pyrimidine-4,6-diamine;
- 15 6-N-[(1-aminocyclopentyl)methyl]-1-methyl-4-N-phenylpyrazolo[3,4-d]pyrimidine-4,6-diamine;
 4-[[6-[(1-aminocyclopentyl)methylamino]-1-methylpyrazolo[3,4-d]pyrimidin-4-yl]amino]benzonitrile;
 6-N-[(1-aminocyclopentyl)methyl]-1-methyl-4-N-[4-(trifluoromethoxy)phenyl]pyrazolo[3,4-d]pyrimidine-4,6-diamine;
- 20 N6-[(1-aminocyclobutyl)methyl]-1-(trideuteriomethyl)-N4-[4-(trifluoromethyl)phenyl]pyrazolo[3,4-d]pyrimidine-4,6-diamine;
 N6-(2-aminocyclohexyl)-N4-[(3-chloro-4-methylphenyl)methyl]-1-methyl-1H-pyrazolo[3,4-d]pyrimidine-4,6-diamine;
- 25 N6-(2-Amino-3-fluoropropyl)-N4-[(3-chloro-4-methylphenyl)methyl]-1-methyl-1H-pyrazolo[3,4-d]pyrimidine-4,6-diamine;
 6-N-(2-amino-3-fluoropropyl)-1-methyl-4-N-[4-(trifluoromethyl)phenyl]pyrazolo[3,4-d]pyrimidine-4,6-diamine;
- 30 6-N-(2-amino-3-methoxypropyl)-4-N-[(3-chloro-4-methylphenyl)methyl]-1-methylpyrazolo[3,4-d]pyrimidine-4,6-diamine;
 6-N-[(3-Aminooxetan-3-yl)methyl]-1-methyl-4-N-[4-(trifluoromethyl)phenyl]pyrazolo[3,4-d]pyrimidine-4,6-diamine;
 6-N-[(3-Aminooxetan-3-yl)methyl]-1-methyl-4-N-phenylpyrazolo[3,4-d]pyrimidine-4,6-diamine;
- 35 N6-(2-Amino-2-phenyl-propyl)-N4-*tert*-butyl-1-(trideuteriomethyl)pyrazolo[3,4-d]pyrimidine-4,6-diamine;

- 6-N-(2-Amino-2-phenylethyl)-1-ethyl-4-N-propan-2-ylpyrazolo[3,4-d]pyrimidine-4,6-diamine;
- 6-N-(2-amino-2-phenylethyl)-4-N-[(3-chloro-4-methylphenyl)methyl]-1-methylpyrazolo[3,4-d]pyrimidine-4,6-diamine;
- 5 6-N-(2-amino-2-phenylethyl)-4-N-[(2,4-difluorophenyl)methyl]-1-methylpyrazolo[3,4-d]pyrimidine-4,6-diamine;
- 6-N-(2-amino-2-phenylethyl)-4-N-[(3-chloro-4-fluorophenyl)methyl]-1-methylpyrazolo[3,4-d]pyrimidine-4,6-diamine;
- 10 6-N-(2-amino-2-phenylethyl)-4-N-[(3-bromophenyl)methyl]-1-methylpyrazolo[3,4-d]pyrimidine-4,6-diamine;
- 6-N-(2-amino-2-phenylethyl)-4-N-[(4-bromophenyl)methyl]-1-methylpyrazolo[3,4-d]pyrimidine-4,6-diamine;
- 6-N-(2-amino-2-phenylethyl)-1-methyl-4-N-[[6-(trifluoromethyl)pyridin-3-yl]methyl]pyrazolo[3,4-d]pyrimidine-4,6-diamine;
- 15 N6-(2-amino-2-phenyl-ethyl)-N4-[(2,4-dimethoxyphenyl)methyl]-1-methylpyrazolo[3,4-d]pyrimidine-4,6-diamine;
- 6-N-(2-amino-2-phenylethyl)-4-N-(4-fluorophenyl)-1-methylpyrazolo[3,4-d]pyrimidine-4,6-diamine;
- N6-(2-amino-2-phenyl-propyl)-1-methyl-N4-[2-(trifluoromethyl)pyrimidin-5-yl]pyrazolo[3,4-d]pyrimidine-4,6-diamine;
- 20 N6-(2-amino-2-phenyl-propyl)-1-methyl-N4-[4-(trifluoromethoxy)phenyl]pyrazolo[3,4-d]pyrimidine-4,6-diamine;
- N6-(2-amino-2-phenyl-propyl)-N4-(3,4-dichlorophenyl)-1-methyl-pyrazolo[3,4-d]pyrimidine-4,6-diamine;
- 25 6-N-(2-amino-2-phenylethyl)-4-N-[4-(difluoromethoxy)phenyl]-1-methylpyrazolo[3,4-d]pyrimidine-4,6-diamine;
- 6-N-(2-amino-2-phenylpropyl)-4-N-[4-(difluoromethoxy)phenyl]-1-methylpyrazolo[3,4-d]pyrimidine-4,6-diamine;
- N6-[(2R)-2-amino-2-phenyl-ethyl]-N4-[4-(difluoromethoxy)phenyl]-1-methylpyrazolo[3,4-d]pyrimidine-4,6-diamine;
- 30 6-N-(2-amino-2-phenylethyl)-1-methyl-4-N-[4-(trifluoromethyl)phenyl]pyrazolo[3,4-d]pyrimidine-4,6-diamine;
- 6-N-(2-amino-2-phenylethyl)-1,3-dimethyl-4-N-[4-(trifluoromethyl)phenyl]pyrazolo[3,4-d]pyrimidine-4,6-diamine;
- 35 N6-(2-amino-2-phenyl-propyl)-1-methyl-N4-[4-(trifluoromethyl)phenyl]pyrazolo[3,4-d]pyrimidine-4,6-diamine;

- N6-(2-amino-2-phenyl-ethyl)-1-(trideuteriomethyl)-N4-[4-(trifluoromethyl)phenyl]pyrazolo[3,4-d]pyrimidine-4,6-diamine;
- N6-(2-amino-2-phenyl-propyl)-1-(trideuteriomethyl)-N4-[4-(trifluoromethyl)phenyl]pyrazolo[3,4-d]pyrimidine-4,6-diamine;
- 5 6-N-[(2R)-2-amino-2-phenylethyl]-1-methyl-4-N-[4-(trifluoromethyl)phenyl]pyrazolo[3,4-d]pyrimidine-4,6-diamine;
- 6-N-[(2S)-2-amino-2-phenylethyl]-1-methyl-4-N-[4-(trifluoromethyl)phenyl]pyrazolo[3,4-d]pyrimidine-4,6-diamine;
- 10 N6-[(2R)-2-amino-2-phenyl-ethyl]-1-(trideuteriomethyl)-N4-[4-(trifluoromethyl)phenyl]pyrazolo[3,4-d]pyrimidine-4,6-diamine;
- 6-N-(2-amino-2-phenylethyl)-1-methyl-4-N-[6-(trifluoromethyl)pyridin-3-yl]pyrazolo[3,4-d]pyrimidine-4,6-diamine;
- 6-N-(2-amino-2-phenylpropyl)-1-methyl-4-N-[6-(trifluoromethyl)pyridin-3-yl]pyrazolo[3,4-d]pyrimidine-4,6-diamine;
- 15 N6-(2-amino-2-phenyl-propyl)-1-(trideuteriomethyl)-N4-[6-(trifluoromethyl)-3-pyridyl]pyrazolo[3,4-d]pyrimidine-4,6-diamine;
- N6-(2-amino-2-phenyl-ethyl)-N4-[6-(difluoromethoxy)-3-pyridyl]-1-methyl-pyrazolo[3,4-d]pyrimidine-4,6-diamine;
- N6-(2-amino-2-phenyl-propyl)-N4-[6-(difluoromethoxy)-3-pyridyl]-1-methyl-pyrazolo[3,4-d]pyrimidine-4,6-diamine;
- 20 N6-[(2R)-2-amino-2-phenyl-ethyl]-N4-(4-chlorophenyl)-1-methyl-pyrazolo[3,4-d]pyrimidine-4,6-diamine;
- N6-[(2S)-2-amino-2-phenyl-ethyl]-N4-(4-chlorophenyl)-1-methyl-pyrazolo[3,4-d]pyrimidine-4,6-diamine;
- 25 N6-[(2R)-2-amino-2-phenyl-ethyl]-N4-(4-methoxyphenyl)-1-methyl-pyrazolo[3,4-d]pyrimidine-4,6-diamine;
- N6-[(2R)-2-amino-2-phenyl-ethyl]-N4-(4-isopropoxyphenyl)-1-methyl-pyrazolo[3,4-d]pyrimidine-4,6-diamine;
- N6-[(2R)-2-amino-2-phenyl-ethyl]-N4-(3,4-difluorophenyl)-1-methyl-pyrazolo[3,4-d]pyrimidine-4,6-diamine;
- 30 N6-[(2R)-2-amino-2-phenyl-ethyl]-N4-[4-(dimethylamino)phenyl]-1-methyl-pyrazolo[3,4-d]pyrimidine-4,6-diamine;
- 6-N-(2-amino-2-phenylethyl)-4-N,1-dimethylpyrazolo[3,4-d]pyrimidine-4,6-diamine;
- 6-N-(2-amino-2-phenylethyl)-1-methyl-4-N-(trideuteriomethyl)pyrazolo[3,4-d]pyrimidine-4,6-diamine;
- 35 6-N-(2-amino-2-phenylethyl)-4-N-methyl-1-(trideuteriomethyl)pyrazolo[3,4-d]pyrimidine-4,6-diamine;

- 6-N-(2-amino-2-phenylpropyl)-4-N,1-dimethylpyrazolo[3,4-d]pyrimidine-4,6-diamine;
 6-N-[(2R)-2-amino-2-phenylethyl]-4-N,1-dimethylpyrazolo[3,4-d]pyrimidine-4,6-diamine;
 6-N-(2-amino-2-phenylethyl)-4-N-ethyl-1-methylpyrazolo[3,4-d]pyrimidine-4,6-diamine;
 5 6-N-(2-amino-2-phenylethyl)-4-N-ethyl-4-N,1-dimethylpyrazolo[3,4-d]pyrimidine-4,6-diamine;
 6-N-(2-amino-2-phenylethyl)-4-N-cyclopropyl-1-methylpyrazolo[3,4-d]pyrimidine-4,6-diamine;
 10 6-N-(2-amino-2-phenylethyl)-1-methyl-4-N-(2,2,2-trifluoroethyl)pyrazolo[3,4-d]pyrimidine-4,6-diamine;
 N6-[(2R)-2-amino-2-phenyl-ethyl]-1-methyl-N4-(2,2,2-trifluoroethyl)pyrazolo[3,4-d]pyrimidine-4,6-diamine;
 6-N-(2-amino-2-phenylethyl)-1-methyl-4-N-propan-2-ylpyrazolo[3,4-d]pyrimidine-4,6-diamine;
 15 6-N-[(2R)-2-amino-2-phenylethyl]-1-methyl-4-N-propan-2-ylpyrazolo[3,4-d]pyrimidine-4,6-diamine;
 N'-(1-methyl-4-pyrrolidin-1-ylpyrazolo[3,4-d]pyrimidin-6-yl)-1-phenylethane-1,2-diamine;
 20 6-N-(2-amino-2-phenylethyl)-4-N-(2-methoxyethyl)-1-methylpyrazolo[3,4-d]pyrimidine-4,6-diamine;
 6-N-(2-amino-2-phenylethyl)-4-N-tert-butyl-1-methylpyrazolo[3,4-d]pyrimidine-4,6-diamine;
 N6-(2-amino-2-phenyl-propyl)-N4-tert-butyl-1-methyl-pyrazolo[3,4-d]pyrimidine-4,6-diamine;
 25 N6-(2-amino-2-phenyl-ethyl)-N4-tert-butyl-1-(trideuteriomethyl)pyrazolo[3,4-d]pyrimidine-4,6-diamine;
 6-N-[(2R)-2-amino-2-phenylethyl]-4-N-tert-butyl-1-methylpyrazolo[3,4-d]pyrimidine-4,6-diamine;
 30 6-N-[(2S)-2-amino-2-phenylethyl]-4-N-tert-butyl-1-methylpyrazolo[3,4-d]pyrimidine-4,6-diamine;
 N6-[(2R)-2-amino-2-phenyl-ethyl]-N4-tert-butyl-1-(trideuteriomethyl)pyrazolo[3,4-d]pyrimidine-4,6-diamine;
 6-N-(2-amino-2-phenylethyl)-4-N-(cyclopropylmethyl)-1-methylpyrazolo[3,4-d]pyrimidine-4,6-diamine;
 35 N6-(2-amino-2-phenyl-ethyl)-N4-(dicyclopropylmethyl)-1-methyl-pyrazolo[3,4-d]pyrimidine-4,6-diamine;

- N6-[(2R)-2-amino-2-phenyl-ethyl]-1-methyl-N4-[(2-methylcyclopropyl)methyl]pyrazolo[3,4-d]pyrimidine-4,6-diamine;
- N6-[(2R)-2-amino-2-phenyl-ethyl]-N4-(1-cyclopropyl-1-methyl-ethyl)-1-methyl-pyrazolo[3,4-d]pyrimidine-4,6-diamine;
- 5 N6-[(2R)-2-amino-2-phenyl-ethyl]-1-methyl-N4-(spiro[2.2]pentan-2-ylmethyl)pyrazolo[3,4-d]pyrimidine-4,6-diamine;
- N6-[(2R)-2-amino-2-phenyl-ethyl]-N4-[(2,2-difluorocyclopropyl)methyl]-1-methyl-pyrazolo[3,4-d]pyrimidine-4,6-diamine;
- N6-[(2R)-2-amino-2-phenyl-ethyl]-N4-[(2,2-dimethylcyclopropyl)methyl]-1-methyl-pyrazolo[3,4-d]pyrimidine-4,6-diamine;
- 10 6-N-(2-amino-2-phenylethyl)-4-N-(2-bicyclo[1.1.1]pentanyl)-1-methylpyrazolo[3,4-d]pyrimidine-4,6-diamine;
- 3-[[6-[(2-amino-2-phenylethyl)amino]-1-methylpyrazolo[3,4-d]pyrimidin-4-yl]amino]bicyclo[1.1.1]pentane-1-carbonitrile;
- 15 N6-(2-amino-2-phenylethyl)-N4-{3-fluorobicyclo[1.1.1]pentan-1-yl}-1-methyl-1H-pyrazolo[3,4-d]pyrimidine-4,6-diamine;
- N6-[(2R)-2-amino-2-phenyl-ethyl]-N4-(3-bicyclo[1.1.1]pentanyl)-1-methyl-pyrazolo[3,4-d]pyrimidine-4,6-diamine;
- N6-[(2R)-2-amino-2-phenyl-ethyl]-N4-(3-fluoro-1-bicyclo[1.1.1]pentanyl)-1-methyl-pyrazolo[3,4-d]pyrimidine-4,6-diamine;
- 20 6-N-(2-amino-2-phenylethyl)-4-N-(4,4-difluorocyclohexyl)-1-methylpyrazolo[3,4-d]pyrimidine-4,6-diamine;
- N6-[(2R)-2-amino-2-phenyl-ethyl]-1-methyl-N4-tetrahydropyran-4-yl-pyrazolo[3,4-d]pyrimidine-4,6-diamine;
- 25 3-[[6-[(2R)-2-amino-2-phenyl-ethyl]amino]-1-methyl-pyrazolo[3,4-d]pyrimidin-4-yl]amino]-3-methyl-butan-1-ol;
- 2-[[6-[(2R)-2-amino-2-phenyl-ethyl]amino]-1-methyl-pyrazolo[3,4-d]pyrimidin-4-yl]amino]-2-methyl-propan-1-ol;
- N6-[(2R)-2-amino-2-phenyl-ethyl]-N4-(2,2-dimethylpropyl)-1-methyl-pyrazolo[3,4-d]pyrimidine-4,6-diamine;
- 30 N6-[(2R)-2-amino-2-phenyl-ethyl]-N4-(2,2-difluoroethyl)-1-methyl-pyrazolo[3,4-d]pyrimidine-4,6-diamine;
- N6-[(2R)-2-amino-2-phenyl-ethyl]-N4-(2,2-difluoropropyl)-1-methyl-pyrazolo[3,4-d]pyrimidine-4,6-diamine;
- 35 N6-[(2R)-2-amino-2-phenyl-ethyl]-1-methyl-N4-(2,2,2-trifluoro-1,1-dimethyl-ethyl)pyrazolo[3,4-d]pyrimidine-4,6-diamine;

N6-[(2R)-2-amino-2-phenyl-ethyl]-1-methyl-N4-[(1S)-2,2,2-trifluoro-1-methyl-ethyl]pyrazolo[3,4-d]pyrimidine-4,6-diamine;

N6-[(2R)-2-amino-2-phenyl-ethyl]-1-methyl-N4-(1-methylcyclopropyl)pyrazolo[3,4-d]pyrimidine-4,6-diamine;

5 N6-[(2R)-2-amino-2-phenyl-ethyl]-1-methyl-N4-[1-(trifluoromethyl)cyclopropyl]pyrazolo[3,4-d]pyrimidine-4,6-diamine;

N6-[(2R)-2-amino-2-phenyl-ethyl]-N4-(1-tert-butylcyclopropyl)-1-methyl-pyrazolo[3,4-d]pyrimidine-4,6-diamine;

10 N6-[(2R)-2-amino-2-phenyl-ethyl]-1-methyl-N4-spiro[2.2]pentan-2-yl-pyrazolo[3,4-d]pyrimidine-4,6-diamine;

[3-[[6-[(2-amino-2-phenyl-ethyl)amino]-1-methyl-pyrazolo[3,4-d]pyrimidin-4-yl]amino]-1-(chloromethyl)cyclobutyl]methanol;

N6-(2-amino-2-phenyl-ethyl)-N4-(2,2-difluorospiro[3.3]heptan-6-yl)-1-methyl-pyrazolo[3,4-d]pyrimidine-4,6-diamine;

15 N6-[(2R)-2-amino-2-phenyl-ethyl]-N4-cyclobutyl-1-methyl-pyrazolo[3,4-d]pyrimidine-4,6-diamine;

N6-[(2R)-2-amino-2-phenyl-ethyl]-1-methyl-N4-(1-methylcyclobutyl)pyrazolo[3,4-d]pyrimidine-4,6-diamine;

20 N6-[(2R)-2-amino-2-phenyl-ethyl]-N4-(3,3-difluorocyclobutyl)-1-methyl-pyrazolo[3,4-d]pyrimidine-4,6-diamine;

N6-[(2R)-2-amino-2-phenyl-ethyl]-N4-(3,3-difluoro-1-methyl-cyclobutyl)-1-methyl-pyrazolo[3,4-d]pyrimidine-4,6-diamine;

N6-[(2R)-2-amino-2-phenyl-ethyl]-1-methyl-N4-(3-methylcyclobutyl)pyrazolo[3,4-d]pyrimidine-4,6-diamine;

25 N6-[(2R)-2-amino-2-phenyl-ethyl]-N4-(3-fluorocyclobutyl)-1-methyl-pyrazolo[3,4-d]pyrimidine-4,6-diamine;

N6-[(2R)-2-amino-2-phenyl-ethyl]-N4-(3-fluorocyclobutyl)-1-methyl-pyrazolo[3,4-d]pyrimidine-4,6-diamine;

30 N6-[(2R)-2-amino-2-phenyl-ethyl]-N4-(3-fluorocyclobutyl)-1-methyl-pyrazolo[3,4-d]pyrimidine-4,6-diamine;

3-[[6-[[[(2R)-2-amino-2-phenyl-ethyl]amino]-1-methyl-pyrazolo[3,4-d]pyrimidin-4-yl]amino]cyclobutanecarbonitrile;

N6-[(2R)-2-amino-2-phenyl-ethyl]-N4-(3-methoxycyclobutyl)-1-methyl-pyrazolo[3,4-d]pyrimidine-4,6-diamine;

35 N6-[(2R)-2-amino-2-phenyl-ethyl]-N4-(3,3-dichlorocyclobutyl)-1-methyl-pyrazolo[3,4-d]pyrimidine-4,6-diamine;

- N6-[(2R)-2-amino-2-phenyl-ethyl]-N4-(2,2-difluorospiro[3.3]heptan-6-yl)-1-methyl-pyrazolo[3,4-d]pyrimidine-4,6-diamine;
- N6-[(2R)-2-amino-2-phenyl-ethyl]-1-methyl-N4-(2-oxaspiro[3.3]heptan-6-yl)pyrazolo[3,4-d]pyrimidine-4,6-diamine;
- 5 N6-[(2R)-2-amino-2-phenyl-ethyl]-N4-(3,3-dimethylcyclobutyl)-1-methyl-pyrazolo[3,4-d]pyrimidine-4,6-diamine;
- N6-[(2R)-2-amino-2-phenyl-ethyl]-N4-(3-fluoro-3-methyl-cyclobutyl)-1-methyl-pyrazolo[3,4-d]pyrimidine-4,6-diamine;
- N6-[(2R)-2-amino-2-phenyl-ethyl]-1-methyl-N4-[(1S)-2,2,2-trifluoro-1-methyl-ethyl]pyrazolo[3,4-d]pyrimidine-4,6-diamine;
- 10 N6-[(2R)-2-amino-2-phenyl-ethyl]-1-methyl-N4-spiro[3.3]heptan-2-yl-pyrazolo[3,4-d]pyrimidine-4,6-diamine;
- N6-[(2R)-2-amino-2-phenyl-ethyl]-N4-(2-methoxy-1,1-dimethyl-ethyl)-1-methyl-pyrazolo[3,4-d]pyrimidine-4,6-diamine;
- 15 N6-[(2R)-2-amino-2-phenyl-ethyl]-N4-(1,1-dimethylpropyl)-1-methyl-pyrazolo[3,4-d]pyrimidine-4,6-diamine;
- N6-[(2R)-2-amino-2-phenyl-ethyl]-N4-[(1S)-1-cyclopropylethyl]-1-methyl-pyrazolo[3,4-d]pyrimidine-4,6-diamine;
- N6-[(2R)-2-amino-2-phenyl-ethyl]-N4-isobutyl-1-methyl-pyrazolo[3,4-d]pyrimidine-4,6-diamine;
- 20 N6-[(2R)-2-amino-2-phenyl-ethyl]-1-methyl-N4-(spiro[2.3]hexan-2-ylmethyl)pyrazolo[3,4-d]pyrimidine-4,6-diamine;
- N6-[(2R)-2-amino-2-phenyl-ethyl]-N4-(cyclobutylmethyl)-1-methyl-pyrazolo[3,4-d]pyrimidine-4,6-diamine;
- 25 N6-[(2R)-2-amino-2-phenyl-ethyl]-N4-[(2,2-difluorocyclobutyl)methyl]-1-methyl-pyrazolo[3,4-d]pyrimidine-4,6-diamine;
- N6-[(2R)-2-amino-2-phenyl-ethyl]-N4-[(1-fluorocyclobutyl)methyl]-1-methyl-pyrazolo[3,4-d]pyrimidine-4,6-diamine;
- N6-[(2R)-2-amino-2-phenyl-ethyl]-N4-[(3-fluorocyclobutyl)methyl]-1-methyl-pyrazolo[3,4-d]pyrimidine-4,6-diamine;
- 30 N6-[(2R)-2-amino-2-phenyl-ethyl]-1-methyl-N4-[3-(trifluoromethyl)cyclobutyl]pyrazolo[3,4-d]pyrimidine-4,6-diamine;
- N6-[(2R)-2-amino-2-phenyl-ethyl]-N4-(2-fluoro-2-methyl-propyl)-1-methyl-pyrazolo[3,4-d]pyrimidine-4,6-diamine;
- 35 N6-[(2R)-2-amino-2-phenyl-ethyl]-1-methyl-N4-(1-methylcyclohexyl)pyrazolo[3,4-d]pyrimidine-4,6-diamine;

- N6-[(2R)-2-amino-2-phenyl-ethyl]-N4-[(2-fluorocyclobutyl)methyl]-1-methyl-pyrazolo[3,4-d]pyrimidine-4,6-diamine;
- N6-[(2R)-2-amino-2-phenyl-ethyl]-N4-cyclopentyl-1-methyl-pyrazolo[3,4-d]pyrimidine-4,6-diamine;
- 5 N6-[(2R)-2-amino-2-phenyl-ethyl]-1-methyl-N4-(3,3,3-trifluoropropyl)pyrazolo[3,4-d]pyrimidine-4,6-diamine;
- N6-[(2R)-2-amino-2-phenyl-ethyl]-N4-[(2,2-dichlorocyclopropyl)methyl]-1-methyl-pyrazolo[3,4-d]pyrimidine-4,6-diamine;
- 10 N6-[(2R)-2-amino-2-phenyl-ethyl]-1-methyl-N4-(1-methylcyclopentyl)pyrazolo[3,4-d]pyrimidine-4,6-diamine;
- N6-[(2R)-2-amino-2-phenyl-ethyl]-N4-[(1R)-2-methoxy-1-methyl-ethyl]-1-methyl-pyrazolo[3,4-d]pyrimidine-4,6-diamine;
- N6-[(2R)-2-amino-2-phenyl-ethyl]-1-methyl-N4-(1-methyl-1-tetrahydropyran-4-yl-ethyl)pyrazolo[3,4-d]pyrimidine-4,6-diamine;
- 15 1-methyl-N6-[(2R)-2-amino-2-phenyl-ethyl]-N4-spiro[2.3]hexan-5-yl-pyrazolo[3,4-d]pyrimidine-4,6-diamine;
- N6-[(2R)-2-amino-2-phenyl-ethyl]-N4-(2,2-dimethylcyclopropyl)-1-methyl-pyrazolo[3,4-d]pyrimidine-4,6-diamine;
- N6-[(2R)-2-amino-2-phenylethyl]-1-methyl-N4-[(2R)-3-methylbutan-2-yl]-1H-pyrazolo[3,4-d]pyrimidine-4,6-diamine;
- 20 N6-[(2R)-2-amino-2-phenylethyl]-1-methyl-N4-[(2S)-3-methylbutan-2-yl]-1H-pyrazolo[3,4-d]pyrimidine-4,6-diamine;
- 6-[(6-{[(2R)-2-amino-2-phenylethyl]amino}-1-methyl-1H-pyrazolo[3,4-d]pyrimidin-4-yl)amino]spiro[3.3]heptan-2-ol;
- 25 N6-[(2R)-2-amino-2-phenylethyl]-1-methyl-N4-[4-(trifluoromethyl)cyclohexyl]-1H-pyrazolo[3,4-d]pyrimidine-4,6-diamine;
- N6-[(2R)-2-amino-2-phenylethyl]-N4-[(1S)-3,3-difluorocyclopentyl]-1-methyl-1H-pyrazolo[3,4-d]pyrimidine-4,6-diamine;
- N6-[(2R)-2-amino-2-phenylethyl]-1-methyl-N4-(4-methyloxan-4-yl)-1H-pyrazolo[3,4-d]pyrimidine-4,6-diamine;
- 30 N6-[(2R)-2-amino-2-phenylethyl]-N4-tert-butyl-1,3-dimethyl-1H-pyrazolo[3,4-d]pyrimidine-4,6-diamine;
- N6-[(2R)-2-amino-2-phenylethyl]-N4-[(1R)-1-cyclopropylethyl]-1-methyl-1H-pyrazolo[3,4-d]pyrimidine-4,6-diamine;
- 35 N6-[(2R)-2-amino-2-phenyl-ethyl]-N4-tert-butyl-1-cyclopropyl-pyrazolo[3,4-d]pyrimidine-4,6-diamine;

- N2-[1-methyl-4-(2-methylpropyl)-1H-pyrazolo[3,4-d]pyrimidin-6-yl]-1-phenylethane-1,2-diamine;
- 6-N-[2-amino-2-(2-methoxyphenyl)ethyl]-4-N-[(3-chloro-4-methylphenyl)methyl]-1-methylpyrazolo[3,4-d]pyrimidine-4,6-diamine;
- 5 6-N-(2-Amino-2-phenylethyl)-4-N-[(3-chloro-4-methylphenyl)methyl]-1-methylpyrazolo[3,4-d]pyrimidine-4,6-diamine;
- 6-N-(2-amino-2-pyridin-2-ylethyl)-1-methyl-4-N-[4-(trifluoromethyl)phenyl]pyrazolo[3,4-d]pyrimidine-4,6-diamine;
- 10 3-[1-Amino-2-[[1-methyl-4-(methylamino)pyrazolo[3,4-d]pyrimidin-6-yl]amino]ethyl]benzonitrile;
- N6-[2-Amino-2-(3-ethynylphenyl)ethyl]-N4-*tert*-butyl-1-methyl-pyrazolo[3,4-d]pyrimidine-4,6-diamine;
- N6-[2-amino-2-(2-pyridyl)ethyl]-N4-*tert*-butyl-1-methyl-pyrazolo[3,4-d]pyrimidine-4,6-diamine;
- 15 6-N-(2-amino-2-pyridin-3-ylethyl)-4-N-[(3-chloro-4-methylphenyl)methyl]-1-methylpyrazolo[3,4-d]pyrimidine-4,6-diamine;
- N6-[2-amino-2-(3-pyridyl)ethyl]-N4-*tert*-butyl-1-methyl-pyrazolo[3,4-d]pyrimidine-4,6-diamine;
- 6-N-[2-amino-2-(2-chlorophenyl)ethyl]-1-methyl-4-N-[4-(trifluoromethyl)phenyl]pyrazolo[3,4-d]pyrimidine-4,6-diamine;
- 20 N6-[2-amino-2-(2-chlorophenyl)ethyl]-N4-*tert*-butyl-1-methyl-pyrazolo[3,4-d]pyrimidine-4,6-diamine;
- N6-[(2R)-2-amino-2-(2-chlorophenyl)ethyl]-N4-*tert*-butyl-1-methyl-pyrazolo[3,4-d]pyrimidine-4,6-diamine;
- 25 6-N-[2-amino-2-(2-fluorophenyl)ethyl]-4-N-[(3-chloro-4-methylphenyl)methyl]-1-methylpyrazolo[3,4-d]pyrimidine-4,6-diamine;
- N6-[2-amino-2-(2-fluorophenyl)ethyl]-N4-*tert*-butyl-1-methyl-pyrazolo[3,4-d]pyrimidine-4,6-diamine;
- N6-[2-amino-2-(2-fluorophenyl)ethyl]-N4-*tert*-butyl-1-(trideuteriomethyl)pyrazolo[3,4-d]pyrimidine-4,6-diamine;
- 30 N6-[(2R)-2-amino-2-(3-bromophenyl)ethyl]-N4-isopropyl-1-methyl-pyrazolo[3,4-d]pyrimidine-4,6-diamine;
- N6-[(2R)-2-amino-2-(3-bromophenyl)ethyl]-1-methyl-N4-(2,2,2-trifluoro-1,1-dimethylethyl)pyrazolo[3,4-d]pyrimidine-4,6-diamine;
- 35 6-N-[2-amino-2-(3-bromophenyl)ethyl]-4-N,1-dimethylpyrazolo[3,4-d]pyrimidine-4,6-diamine;

- N6-[2-amino-2-(3-bromophenyl)ethyl]-N4-*tert*-butyl-1-methyl-pyrazolo[3,4-d]pyrimidine-4,6-diamine;
- 6-N-[2-amino-2-(4-bromophenyl)ethyl]-1-methyl-4-N-propan-2-ylpyrazolo[3,4-d]pyrimidine-4,6-diamine;
- 5 N6-[2-amino-2-(2-bromophenyl)ethyl]-N4-*tert*-butyl-1-methyl-pyrazolo[3,4-d]pyrimidine-4,6-diamine;
- 4-[1-amino-2-[[1-methyl-4-(methylamino)pyrazolo[3,4-d]pyrimidin-6-yl]amino]ethyl]benzonitrile;
- 3-[1-amino-2-[[4-(*tert*-butylamino)-1-methyl-pyrazolo[3,4-d]pyrimidin-6-yl]amino]ethyl]benzonitrile;
- 10 3-[(1R)-1-amino-2-[[1-methyl-4-[(2,2,2-trifluoro-1,1-dimethyl-ethyl)amino]pyrazolo[3,4-d]pyrimidin-6-yl]amino]ethyl]benzonitrile;
- N6-[2-amino-2-(3-pyridyl)ethyl]-N4-*tert*-butyl-1-methyl-pyrazolo[3,4-d]pyrimidine-4,6-diamine;
- 15 N6-[2-amino-2-(3-pyridyl)ethyl]-N4-(3,3-difluorocyclobutyl)-1-methyl-pyrazolo[3,4-d]pyrimidine-4,6-diamine;
- N6-[2-amino-2-(4-pyridyl)ethyl]-N4-*tert*-butyl-1-methyl-pyrazolo[3,4-d]pyrimidine-4,6-diamine;
- N6-[2-amino-2-(4-pyridyl)ethyl]-N4-(3,3-difluorocyclobutyl)-1-methyl-pyrazolo[3,4-d]pyrimidine-4,6-diamine;
- 20 4-[(1R)-1-amino-2-{[4-(*tert*-butylamino)-1-methyl-1H-pyrazolo[3,4-d]pyrimidin-6-yl]amino}ethyl]benzonitrile;
- N4-*tert*-butyl-1-methyl-N6-[(2R)-2-(methylamino)-2-phenylethyl]-1H-pyrazolo[3,4-d]pyrimidine-4,6-diamine;
- 25 N6-[2-amino-2-(4-fluorophenyl)ethyl]-N4-*tert*-butyl-1-methyl-1H-pyrazolo[3,4-d]pyrimidine-4,6-diamine;
- N6-[2-amino-2-(3,4-difluorophenyl)ethyl]-N4-*tert*-butyl-1-methyl-pyrazolo[3,4-d]pyrimidine-4,6-diamine;
- N6-[2-amino-2-(3-cyclopropylphenyl)ethyl]-N4-*tert*-butyl-1-methyl-1H-pyrazolo[3,4-d]pyrimidine-4,6-diamine;
- 30 N6-[2-amino-2-(4-cyclopropylphenyl)ethyl]-N4-*tert*-butyl-1-methyl-1H-pyrazolo[3,4-d]pyrimidine-4,6-diamine;
- N'-(4-Ethoxy-1-methylpyrazolo[3,4-d]pyrimidin-6-yl)-1-phenylethane-1,2-diamine;
- N'-(1-methyl-4-propan-2-yloxy-pyrazolo[3,4-d]pyrimidin-6-yl)-1-phenylethane-1,2-diamine;
- 35 N'-(4-*tert*-butoxy-1-methyl-pyrazolo[3,4-d]pyrimidin-6-yl)-1-phenyl-ethane-1,2-diamine;

- 1-methyl-N6-[[[(3R)-morpholin-3-yl]methyl]-N4-[4-(trifluoromethyl)phenyl]-1H-pyrazolo[3,4-d]pyrimidine-4,6-diamine;
- 6-N-[(1S,2R)-2-aminocyclohexyl]-4-N-[(3-chloro-4-methylphenyl)methyl]-1-methylpyrazolo[3,4-d]pyrimidine-4,6-diamine;
- 5 6-N-[(1R,2R)-2-aminocyclohexyl]-4-N-[(3-chloro-4-methylphenyl)methyl]-1-methylpyrazolo[3,4-d]pyrimidine-4,6-diamine;
- N6-[(2R)-2-amino-2-phenyl-ethyl]-N4-cyclopropyl-1-methyl-pyrazolo[3,4-d]pyrimidine-4,6-diamine;
- N6-[(2R)-2-amino-2-phenyl-ethyl]-N4-(4-fluorophenyl)-1-methyl-pyrazolo[3,4-d]pyrimidine-4,6-diamine;
- 10 N6-[(2S)-2-amino-2-phenyl-ethyl]-N4-(4-fluorophenyl)-1-methyl-pyrazolo[3,4-d]pyrimidine-4,6-diamine;
- N6-[(2S)-2-amino-2-phenyl-ethyl]-1-methyl-N4-(2,2,2-trifluoroethyl)pyrazolo[3,4-d]pyrimidine-4,6-diamine;
- 15 N6-[(2R)-2-amino-2-phenyl-ethyl]-1-methyl-N4-[6-(trifluoromethyl)-3-pyridyl]pyrazolo[3,4-d]pyrimidine-4,6-diamine;
- N6-[(2S)-2-amino-2-phenyl-ethyl]-1-methyl-N4-[6-(trifluoromethyl)-3-pyridyl]pyrazolo[3,4-d]pyrimidine-4,6-diamine;
- rel-6-N-[(2S)-2-amino-2-phenylpropyl]-4-N,1-dimethylpyrazolo[3,4-d]pyrimidine-4,6-diamine;
- 20 N6-[(2S)-2-amino-2-(2-fluorophenyl)ethyl]-N4-tert-butyl-1-methyl-pyrazolo[3,4-d]pyrimidine-4,6-diamine;
- N6-[(2R)-2-amino-2-(2-fluorophenyl)ethyl]-N4-tert-butyl-1-methyl-pyrazolo[3,4-d]pyrimidine-4,6-diamine;
- 25 rel-N6-[(2R)-2-amino-2-phenyl-propyl]-1-methyl-N4-[6-(trifluoromethyl)-3-pyridyl]pyrazolo[3,4-d]pyrimidine-4,6-diamine;
- 6-N-[(2R)-2-amino-3-fluoropropyl]-4-N-[(3-chloro-4-methylphenyl)methyl]-1-methylpyrazolo[3,4-d]pyrimidine-4,6-diamine;
- rel-N6-[(2S)-2-amino-2-phenyl-propyl]-1-methyl-N4-[6-(trifluoromethyl)-3-pyridyl]pyrazolo[3,4-d]pyrimidine-4,6-diamine;
- 30 N6-[(2R)-2-amino-2-(2-fluorophenyl)ethyl]-N4-tert-butyl-1-(trideuteriomethyl)pyrazolo[3,4-d]pyrimidine-4,6-diamine;
- N6-[(2S)-2-amino-2-(2-fluorophenyl)ethyl]-N4-tert-butyl-1-(trideuteriomethyl)pyrazolo[3,4-d]pyrimidine-4,6-diamine;
- 35 N6-[(2R)-2-amino-2-(4-fluorophenyl)ethyl]-N4-tert-butyl-1-methyl-1H-pyrazolo[3,4-d]pyrimidine-4,6-diamine;

N6-[(2R)-2-amino-2-(2-fluorophenyl)ethyl]-N4-tert-butyl-1-methyl-pyrazolo[3,4-d]pyrimidine-4,6-diamine;

N6-[(2R)-2-amino-2-(3,4-difluorophenyl)ethyl]-N4-tert-butyl-1-methyl-1H-pyrazolo[3,4-d]pyrimidine-4,6-diamine;

5 N6-[(2S)-2-amino-2-(3,4-difluorophenyl)ethyl]-N4-tert-butyl-1-methyl-1H-pyrazolo[3,4-d]pyrimidine-4,6-diamine;

N6-[(2R)-2-amino-2-cyclohexylethyl]-N4-tert-butyl-1-methyl-1H-pyrazolo[3,4-d]pyrimidine-4,6-diamine; and

10 N6-[(2S)-2-amino-2-cyclohexylethyl]-N4-tert-butyl-1-methyl-1H-pyrazolo[3,4-d]pyrimidine-4,6-diamine.

17. A pharmaceutical composition comprising a compound according to any one of claims 1 to 16, or a pharmaceutically acceptable salt thereof, and one or more pharmaceutically acceptable excipients.

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18. A compound according to any one of claims 1 to 16, or a pharmaceutically acceptable salt thereof, or a pharmaceutical composition according to claim 17, for use in therapy.

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19. A compound according to any one of claims 1 to 16, or a pharmaceutically acceptable salt thereof, or a pharmaceutical composition according to claim 17, for use in the treatment of a proliferative condition.

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20. A compound according to any one of claims 1 to 16, or a pharmaceutically acceptable salt thereof, or a pharmaceutical composition according to claim 17, for use in the treatment of cancer or inflammation.

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21. A compound according to any one of claims 1 to 16, or a pharmaceutically acceptable salt there, or a pharmaceutical composition according to claim 17, for use in the treatment of breast cancer.

22. A compound according to any one of claims 1 to 16, or a pharmaceutically acceptable salt thereof, or a pharmaceutical composition according to claim 17, for use in the inhibition and/or degradation of BCDIN3D activity.

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~~22-23.~~ Use of a compound according to any one of claims 1 to 16, or a pharmaceutically acceptable salt thereof, or a pharmaceutical composition according to claim 17, in the manufacture of a medicament for the treatment of a proliferative condition.

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~~23-24.~~ Use of a compound according to any one of claims 1 to 16, or a pharmaceutically acceptable salt thereof, or a pharmaceutical composition according to claim 17, in the manufacture of a medicament for the treatment of cancer or inflammation.

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~~24-25.~~ Use of a compound according to any one of claims 1 to 16, or a pharmaceutically acceptable salt thereof, or a pharmaceutical composition according to claim 17, in the manufacture of a medicament for the treatment of breast cancer.

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~~25-26.~~ Use of a compound according to any one of claims 1 to 16, or a pharmaceutically acceptable salt thereof, or a pharmaceutical composition according to claim 17, in the manufacture of a medicament for the inhibition and/or degradation of BCDIN3D activity.

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~~26. A method of treating a proliferative disorder, said method comprising administering to a subject in need thereof a therapeutically effective amount of a compound according to any one of claims 1 to 16, or a pharmaceutically acceptable salt thereof, or a pharmaceutical composition according to claim 17.~~

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~~27. A method of treating cancer or inflammation, said method comprising administering to a subject in need thereof a therapeutically effective amount of a compound according to any one of claims 1 to 16, or a pharmaceutically acceptable salt thereof, or a pharmaceutical composition according to claim 17.~~

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~~28. A method of treating breast cancer, said method comprising administering to a subject in need thereof a therapeutically effective amount of a compound according to any one of claims 1 to 16, or a pharmaceutically acceptable salt thereof, or a pharmaceutical composition according to claim 17.~~

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~~29-27.~~ A method of inhibiting and/or degrading BCDIN3D activity *in vitro* ~~or in vivo~~, said method comprising contacting a cell with an effective amount of a compound

according to any one of claims 1 to 16, or a pharmaceutically acceptable salt thereof, or a pharmaceutical composition according to claim 17.

5 ~~30-28.~~ 28. A method of inhibiting and/or degrading metastasis *in vitro* ~~or in vivo~~, said method comprising contacting a cell with an effective amount of a compound according to any one of claims 1 to 16, or a pharmaceutically acceptable salt thereof, or a pharmaceutical composition according to claim 17.

10 ~~31-29.~~ 29. A combination comprising a compound according to any one of claims 1 to 16, or a pharmaceutically acceptable salt thereof, with one or more additional therapeutic agents.

15 30. Use of a compound according to any one of claims 1 to 16, or a pharmaceutically acceptable salt thereof, or a pharmaceutical composition according to claim 17, in the manufacture of a medicament for inhibiting and/or degrading BCDIN3D activity *in vivo*, wherein a cell is to be contacted with the compound, or the pharmaceutically acceptable salt thereof, or the pharmaceutical composition.

20 31. Use of a compound according to any one of claims 1 to 16, or a pharmaceutically acceptable salt thereof or a pharmaceutical composition according to claim 17, in the manufacture of a medicament for inhibiting and/or degrading metastasis *in vivo*, wherein a cell is to be contacted with the compound, or the pharmaceutically acceptable salt thereof, or the pharmaceutical composition.

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