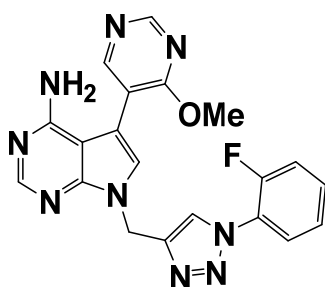


5 hrs. The reaction mixture was diluted with water and extracted with EtOAc. The combined organics were washed with water, brine, dried (Na₂SO₄) and evaporated to dryness *in vacuo*. The residue was purified by column chromatography on silica gel followed by prep-HPLC, to afford the title compound as an off white solid (80 mg, 4.6%). ¹HNMR (400MHz, DMSO-d₆) 4.67 (s, 2H), 5.47 (s, 2H), 6.02 (br s, 1H), 6.22 (m, 2H), 6.67 (br s, 2H), 7.42 (t, 1H), 7.51-7.64 (m, 2H), 7.81 (t, 1H), 8.12 (s, 1H), 8.56 (s, 1H). LCMS *m/z* = 378 [MH]⁺

10

Example 200: 7-[[1-(2-Fluorophenyl)-1H-1,2,3-triazol-4-yl]methyl]-5-(4-methoxypyrimidin-5-yl)-7H-pyrrolo[2,3-d]pyrimidin-4-amine



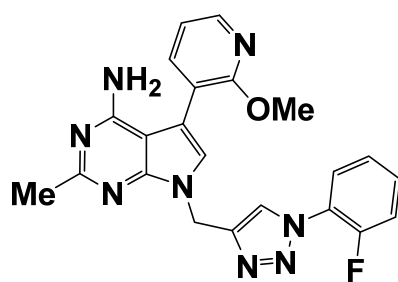
15 To a degassed solution of 7-[[1-(2-fluorophenyl)-1H-1,2,3-triazol-4-yl]methyl]-5-iodo-7H-pyrrolo[2,3-d]pyrimidin-4-amine (Preparation 95, 2 g, 4.56 mmol) in MeCN:H₂O (80 mL, 4:1) was added (4-methoxypyrimidin-5-yl)boronic acid (1.19 g, 5.055 mmol) followed by CsF (3.49 g, 23.0 mmol). The resulting mixture was degassed with Ar for 15 minutes and Pd(PPh₃)₄ (0.69 g, 0.597 mmol) was added and

20 reaction mixture heated at 70°C for 6 hours. The reaction mixture was diluted with water and extracted with DCM. The combined organics were dried (Na₂SO₄) and evaporated to dryness *in vacuo*. The residue was purified by column chromatography on silica gel, followed by trituration with DCM-ether to afford the title compound as off white solid (1.5 g, 78%). ¹HNMR (400MHz, DMSO-d₆) 3.93 (s, 3H), 5.57 (s, 2H), 6.33 (s, 2H), 7.42 (t, 1H), 7.48 (s, 1H), 7.52-7.62 (m, 2H), 7.81 (t, 1H), 8.17 (s, 1H), 8.41 (s, 1H), 8.62 (d, 1H), 8.75 (s, 1H). LCMS *m/z* = 418 [MH]⁺

25

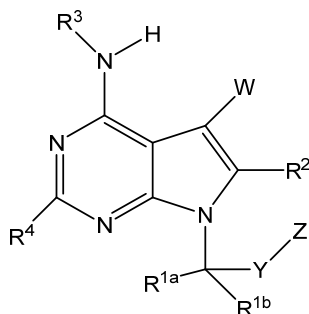
Example 201: No Example 201 was prepared.

Example 202: 7-[[1-(2-Fluorophenyl)-1H-1,2,3-triazol-4-yl]methyl]-5-(2-methoxypyridin-3-yl)-2-methyl-7H-pyrrolo[2,3-d]pyrimidin-4-amine



CLAIMS

1. A compound of Formula I



I

or a pharmaceutically acceptable salt thereof, wherein

W is selected from the group consisting of phenyl, which is optionally fused with a five to six membered cycloalkyl or a five to six membered heterocycloalkyl comprising one, two, three, or four heteroatoms selected independently for each occurrence from the group consisting of N, O and S(O)_n;

a five to ten membered heteroaryl comprising one, two, three, or four heteroatoms selected independently for each occurrence from the group consisting of N, O and S(O)_n;

a four to seven membered heterocycloalkyl comprising one, two, three, or four heteroatoms selected independently for each occurrence from the group consisting of N, O, and S(O)_n; and

C₃-C₇cycloalkyl;

wherein the phenyl, heteroaryl, heterocycloalkyl, and cycloalkyl are optionally substituted with one, two, three, four, or five R⁵ ;

Y is a five membered heteroaryl comprising one, two, three, or four heteroatoms selected independently for each occurrence from the group consisting of N, O and S(O)_n, wherein the heteroaryl is optionally substituted with one, two, or three substituents independently selected from the group consisting of halo, C₁-C₆alkyl, and C₁-C₆haloalkyl;

Z is selected from the group consisting of phenyl, C₁-C₆alkyl, C₃-C₇cycloalkyl, a five or six membered heteroaryl comprising one, two or three heteroatoms selected independently for each occurrence from the group consisting of N, O and S(O)_n, and a four to seven membered heterocycloalkyl comprising one, two, or three heteroatoms selected independently for each occurrence from the group consisting of N, O and S(O)_n; wherein said phenyl, alkyl, cycloalkyl, heteroaryl, and heterocycloalkyl are each independently optionally substituted with one, two, three, four, or five R⁶ ;

R^{1a} and R^{1b} are each independently selected from the group consisting of -H, -OH, halo, C₁-C₆alkyl, C₃-C₇cycloalkyl, and a four to seven membered heterocycloalkyl comprising one, two, or three heteroatoms each independently selected from the group consisting of N, O and S(O)_n, wherein the C₁-C₆alkyl group is optionally substituted with one, two, or three substituents each independently selected from the group consisting of halo, -OH, C₁-C₃alkoxy, C₃-C₇cycloalkyl, and a four to seven membered heterocycloalkyl comprising one, two, or three heteroatoms each independently selected from the group consisting of N, O and S(O)_n; and wherein each C₃-C₇cycloalkyl and each four to seven membered heterocycloalkyl are optionally substituted with one, two or three substituents independently selected for each occurrence from the group consisting of -OH, halo, and C₁-C₆alkyl;

or R^{1a} and R^{1b} taken together with the carbon to which they are attached form a C₃-C₇cycloalkyl or a four to seven membered heterocycloalkyl comprising one, two, or three heteroatoms each independently selected from the group consisting of N, O and S(O)_n; and wherein each C₃-C₇cycloalkyl and each four to seven membered heterocycloalkyl are optionally substituted with one, two or three substituents each independently selected from the group consisting of -OH, halo, and C₁-C₆alkyl;

R² is selected from the group consisting of -H, halo, -CN, C₁-C₆alkyl and C₁-C₆haloalkyl;

R³ and R⁴ are independently selected for each occurrence from the group consisting of -H, C₁-C₆alkyl and C₁-C₆haloalkyl;

R⁵ at each occurrence is independently selected from the group consisting of halo, -CN, C₁-C₆alkyl, C₁-C₆haloalkyl, -OR⁷, -N(R⁷)₂, -N(R⁷)C(O)R⁷, -SR⁷, oxo, C₂-C₇alkoxyalkyl, -S(O)₂C₁-C₆alkyl, -C(O)R⁷, and a five membered heteroaryl comprising one, two, three, or four heteroatoms selected independently for each occurrence from the group consisting of N, O and S(O)_n, wherein the heteroaryl is optionally substituted with one, two, or three substituents independently selected for each occurrence from the group consisting of halo, -CN, C₁-C₆alkyl, C₁-C₆haloalkyl, -OR⁷, -N(R⁷)₂ and -SR⁷;

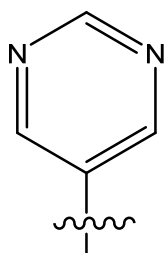
R⁶ at each occurrence is independently selected from the group consisting of halo, C₁-C₆alkyl and C₁-C₆haloalkyl, -OR⁷, -N(R⁷)₂, and -SR⁷;

R⁷ is independently selected for each occurrence from the group consisting of -H, C₁-C₆alkyl, C₁-C₆haloalkyl, C₃-C₇cycloalkyl, and C₁-C₆alkylC₃-C₇cycloalkyl; and

n at each occurrence is independently 0, 1, or 2.

2. The compound of claim 1 wherein
R³ and R⁴ are both -H;
or a pharmaceutically acceptable salt thereof.
3. The compound of claim 2 wherein
Y is selected from the group consisting of pyrazolyl, triazolyl, imidazolyl, and isoxazolyl, each of which is optionally substituted with a C₁-C₆ alkyl;
or a pharmaceutically acceptable salt thereof.
4. The compound of claim 2 wherein
the moiety Y-Z is selected from the group consisting of:

8. The compound of claim 6 wherein W is



, optionally substituted with one, two, or three R⁵;

R⁵ at each occurrence is independently selected from the group consisting of -OCH₃, -CHF₂, -CF₃, and -N(CH₃)₂; or a pharmaceutically acceptable salt thereof.

9. The compound of claim 3 wherein
Z is selected from the group consisting of phenyl, C₃-C₇cycloalkyl, and C₁-C₆alkyl, each optionally substituted with one, two, or three R⁶;
or a pharmaceutically acceptable salt thereof.
10. The compound of claim 9 wherein
Z is phenyl, optionally substituted with one or two fluoro or chloro;
or a pharmaceutically acceptable salt thereof.
11. The compound of claim 9 wherein
Z is C₁-C₆alkyl or C₃-C₇cycloalkyl;
or a pharmaceutically acceptable salt thereof.
12. The compound of claim 2 wherein
R² is selected from the group consisting of: -H, -CN, and -Br;
or a pharmaceutically acceptable salt thereof.
13. The compound of claim 1, wherein the compound is selected from the group consisting of
4-amino-5-[2-(difluoromethyl)pyrimidin-5-yl]-7-[(1S)-1-[1-(2-fluorophenyl)-1H-pyrazol-4-yl]ethyl]-7H-pyrrolo[2,3-d]pyrimidine-6-carbonitrile;

4-amino-5-[2-(difluoromethyl)pyrimidin-5-yl]-7-[(1R)-1-[1-(2-fluorophenyl)-1H-pyrazol-4-yl]ethyl]-7H-pyrrolo[2,3-d]pyrimidine-6-carbonitrile;

4-amino-7-[(1S)-1-[1-(2-fluorophenyl)-1H-pyrazol-4-yl]propyl]-5-[2-(trifluoromethyl)pyrimidin-5-yl]-7H-pyrrolo[2,3-d]pyrimidine-6-carbonitrile;

4-amino-7-[(1R)-1-[1-(2-fluorophenyl)-1H-pyrazol-4-yl]propyl]-5-[2-(trifluoromethyl)pyrimidin-5-yl]-7H-pyrrolo[2,3-d]pyrimidine-6-carbonitrile;

4-amino-7-[(1R)-1-[1-(2-fluorophenyl)-1H-pyrazol-4-yl]ethyl]-5-[2-(trifluoromethyl)pyrimidin-5-yl]-7H-pyrrolo[2,3-d]pyrimidine-6-carbonitrile;

4-amino-7-[(1S)-1-[1-(2-fluorophenyl)-1H-pyrazol-4-yl]ethyl]-5-[2-(trifluoromethyl)pyrimidin-5-yl]-7H-pyrrolo[2,3-d]pyrimidine-6-carbonitrile;

4-amino-7-[(1S)-1-[1-(2,4-difluorophenyl)-1H-pyrazol-4-yl]ethyl]-5-[2-(trifluoromethyl)pyrimidin-5-yl]-7H-pyrrolo[2,3-d]pyrimidine-6-carbonitrile;

4-amino-7-[(1R)-1-[1-(2,4-difluorophenyl)-1H-pyrazol-4-yl]ethyl]-5-[2-(trifluoromethyl)pyrimidin-5-yl]-7H-pyrrolo[2,3-d]pyrimidine-6-carbonitrile;

4-amino-7-[(1R)-1-[3-(2-fluorophenyl)-1,2-oxazol-5-yl]ethyl]-5-(2-methoxypyrimidin-5-yl)-7H-pyrrolo[2,3-d]pyrimidine-6-carbonitrile;

4-amino-7-[(1S)-1-[3-(2-fluorophenyl)-1,2-oxazol-5-yl]ethyl]-5-(2-methoxypyrimidin-5-yl)-7H-pyrrolo[2,3-d]pyrimidine-6-carbonitrile;

4-amino-7-[(1S)-1-[1-(2,4-difluorophenyl)-1H-1,2,3-triazol-4-yl]propyl]-5-[2-(trifluoromethyl)pyrimidin-5-yl]-7H-pyrrolo[2,3-d]pyrimidine-6-carbonitrile;

4-amino-7-[(1S)-1-[1-(2,3-difluorophenyl)-1H-1,2,3-triazol-4-yl]propyl]-5-[2-(trifluoromethyl)pyrimidin-5-yl]-7H-pyrrolo[2,3-d]pyrimidine-6-carbonitrile;

4-amino-7-[(1S)-1-[1-(2,4-difluorophenyl)-1H-pyrazol-4-yl]propyl]-5-[2-(trifluoromethyl)pyrimidin-5-yl]-7H-pyrrolo[2,3-d]pyrimidine-6-carbonitrile;

4-amino-7-[(1R)-1-[1-(2,4-difluorophenyl)-1H-pyrazol-4-yl]propyl]-5-[2-(trifluoromethyl)pyrimidin-5-yl]-7H-pyrrolo[2,3-d]pyrimidine-6-carbonitrile;

4-amino-7-((1S)-1-[1-(2-fluorophenyl)-1H-1,2,3-triazol-4-yl]propyl)-5-[2-(trifluoromethyl)pyrimidin-5-yl]-7H-pyrrolo[2,3-d]pyrimidine-6-carbonitrile;

4-amino-7-[[1-(2-fluorophenyl)-1H-pyrazol-4-yl]methyl]-5-[2-(trifluoromethyl)pyrimidin-5-yl]-7H-pyrrolo[2,3-d]pyrimidine-6-carbonitrile;

4-amino-7-[[1-(2,4-difluorophenyl)-1H-pyrazol-4-yl]methyl]-5-[2-(trifluoromethyl)pyrimidin-5-yl]-7H-pyrrolo[2,3-d]pyrimidine-6-carbonitrile;

4-amino-5-[2-(difluoromethyl)pyrimidin-5-yl]-7-[[1-(2-fluorophenyl)-1H-pyrazol-4-yl]methyl]-7H-pyrrolo[2,3-d]pyrimidine-6-carbonitrile;

4-amino-7-[[1-(2-fluorophenyl)-1H-1,2,3-triazol-4-yl]methyl]-5-[2-(trifluoromethyl)pyrimidin-5-yl]-7H-pyrrolo[2,3-d]pyrimidine-6-carbonitrile;

6-bromo-7-[[1-(2-fluorophenyl)-1H-pyrazol-4-yl]methyl]-5-[2-(trifluoromethyl)pyrimidin-5-yl]-7H-pyrrolo[2,3-d]pyrimidin-4-amine;

5-[4-(cyclopropyloxy)phenyl]-7-[[1-(2-fluorophenyl)-1H-1,2,3-triazol-4-yl]methyl]-7H-pyrrolo[2,3-d]pyrimidin-4-amine;

5-cyclobutyl-7-((1S)-1-[1-(2-fluorophenyl)-1H-1,2,3-triazol-4-yl]ethyl)-7H-pyrrolo[2,3-d]pyrimidin-4-amine;

5-(4-chlorophenyl)-7-((1S)-1-[1-(2-fluorophenyl)-1H-1,2,3-triazol-4-yl]ethyl)-7H-pyrrolo[2,3-d]pyrimidin-4-amine;

5-[6-(cyclopropyloxy)pyridin-3-yl]-7-((1S)-1-[1-(2-fluorophenyl)-1H-1,2,3-triazol-4-yl]ethyl)-7H-pyrrolo[2,3-d]pyrimidin-4-amine;

5-(6-methoxypyridin-3-yl)-7-[(1S)-1-(1-phenyl-1H-1,2,3-triazol-4-yl)propyl]-7H-pyrrolo[2,3-d]pyrimidin-4-amine;

7-[(1S)-1-(1-phenyl-1H-1,2,3-triazol-4-yl)propyl]-5-[2-(trifluoromethyl)pyrimidin-5-yl]-7H-pyrrolo[2,3-d]pyrimidin-4-amine;

5-(4-chlorophenyl)-7-((1S)-1-[1-(2-fluorophenyl)-1H-1,2,3-triazol-4-yl]propyl)-7H-pyrrolo[2,3-d]pyrimidin-4-amine;

7-((1S)-1-[1-(2-fluorophenyl)-1H-1,2,3-triazol-4-yl]propyl)-5-(3-methoxypyrazin-2-yl)-7H-pyrrolo[2,3-d]pyrimidin-4-amine;

7-((1S)-1-[1-(2-fluorophenyl)-1H-1,2,3-triazol-4-yl]propyl)-5-[2-(trifluoromethyl)pyrimidin-5-yl]-7H-pyrrolo[2,3-d]pyrimidin-4-amine;

5-(5-fluoro-2-methoxypyridin-3-yl)-7-((1S)-1-[1-(2-fluorophenyl)-1H-1,2,3-triazol-4-yl]propyl)-7H-pyrrolo[2,3-d]pyrimidin-4-amine;

5-[6-(difluoromethoxy)pyridin-3-yl]-7-((1S)-1-[1-(2-fluorophenyl)-1H-1,2,3-triazol-4-yl]propyl)-7H-pyrrolo[2,3-d]pyrimidin-4-amine;

7-((1S)-1-[1-(3,4-difluorophenyl)-1H-1,2,3-triazol-4-yl]propyl)-5-[2-(trifluoromethyl)pyrimidin-5-yl]-7H-pyrrolo[2,3-d]pyrimidin-4-amine;

7-((1S)-1-[1-(3,4-difluorophenyl)-1H-1,2,3-triazol-4-yl]propyl)-5-(5-fluoro-2-methoxypyridin-3-yl)-7H-pyrrolo[2,3-d]pyrimidin-4-amine;

7-((1S)-1-[1-(2,4-difluorophenyl)-1H-1,2,3-triazol-4-yl]propyl)-5-[2-(trifluoromethyl)pyrimidin-5-yl]-7H-pyrrolo[2,3-d]pyrimidin-4-amine;

7-((1S)-1-[1-(2,4-difluorophenyl)-1H-1,2,3-triazol-4-yl]propyl)-5-(5-fluoro-2-methoxypyridin-3-yl)-7H-pyrrolo[2,3-d]pyrimidin-4-amine;

7-((1S)-1-[1-(2,4-difluorophenyl)-1H-1,2,3-triazol-4-yl]propyl)-5-(5-fluoro-6-methoxypyridin-3-yl)-7H-pyrrolo[2,3-d]pyrimidin-4-amine;

7-((1S)-1-[1-(2,3-difluorophenyl)-1H-1,2,3-triazol-4-yl]propyl)-5-(5-fluoro-2-methoxypyridin-3-yl)-7H-pyrrolo[2,3-d]pyrimidin-4-amine;

7-((1S)-1-[1-(2,5-difluorophenyl)-1H-1,2,3-triazol-4-yl]propyl)-5-(5-fluoro-2-methoxypyridin-3-yl)-7H-pyrrolo[2,3-d]pyrimidin-4-amine;

7-((1S)-1-[1-(2-fluorophenyl)-1H-pyrazol-4-yl]propyl)-5-[2-(trifluoromethyl)pyrimidin-5-yl]-7H-pyrrolo[2,3-d]pyrimidin-4-amine;

7-((1S)-1-[2-(2,4-difluorophenyl)-1H-imidazol-4-yl]propyl)-5-[2-(trifluoromethyl)pyrimidin-5-yl]-7H-pyrrolo[2,3-d]pyrimidin-4-amine;

7-((1S)-1-[1-(2,5-difluorophenyl)-1H-1,2,3-triazol-4-yl]propyl)-5-[2-(trifluoromethyl)pyrimidin-5-yl]-7H-pyrrolo[2,3-d]pyrimidin-4-amine;

7-((1S)-1-[1-(2,3-difluorophenyl)-1H-1,2,3-triazol-4-yl]propyl)-5-[2-(trifluoromethyl)pyrimidin-5-yl]-7H-pyrrolo[2,3-d]pyrimidin-4-amine;

7-((1S)-1-[1-(2,4-difluorophenyl)-5-methyl-1H-1,2,3-triazol-4-yl]propyl)-5-[2-(trifluoromethyl)pyrimidin-5-yl]-7H-pyrrolo[2,3-d]pyrimidin-4-amine;

7-[[1-(2-fluorophenyl)-1H-1,2,3-triazol-4-yl]methyl]-5-(2-methoxy-6-methylpyridin-3-yl)-7H-pyrrolo[2,3-d]pyrimidin-4-amine;

7-[[1-(2-fluorophenyl)-1H-1,2,3-triazol-4-yl]methyl]-5-[2-methoxy-6-(trifluoromethyl)pyridin-3-yl]-7H-pyrrolo[2,3-d]pyrimidin-4-amine;

4-amino-7-((1S)-1-[1-(2-fluorophenyl)-1H-1,2,3-triazol-4-yl]ethyl)-5-[2-(trifluoromethyl)pyrimidin-5-yl]-7H-pyrrolo[2,3-d]pyrimidine-6-carbonitrile;

4-amino-7-((1S)-1-[1-(2,4-difluorophenyl)-1H-1,2,3-triazol-4-yl]ethyl)-5-[2-(trifluoromethyl)pyrimidin-5-yl]-7H-pyrrolo[2,3-d]pyrimidine-6-carbonitrile;

4-amino-7-((1S)-1-[1-(2-fluorophenyl)-5-methyl-1H-1,2,3-triazol-4-yl]ethyl)-5-[2-(trifluoromethyl)pyrimidin-5-yl]-7H-pyrrolo[2,3-d]pyrimidine-6-carbonitrile;

4-amino-7-((1R)-1-[1-(2,4-difluorophenyl)-1H-1,2,3-triazol-4-yl]propyl)-5-[2-(trifluoromethyl)pyrimidin-5-yl]-7H-pyrrolo[2,3-d]pyrimidine-6-carbonitrile;

4-amino-7-((1R)-1-[1-(2,3-difluorophenyl)-1H-1,2,3-triazol-4-yl]propyl)-5-[2-(trifluoromethyl)pyrimidin-5-yl]-7H-pyrrolo[2,3-d]pyrimidine-6-carbonitrile;

4-amino-7-((1R)-1-[1-(2-fluorophenyl)-1H-1,2,3-triazol-4-yl]propyl)-5-[2-(trifluoromethyl)pyrimidin-5-yl]-7H-pyrrolo[2,3-d]pyrimidine-6-carbonitrile;

4-amino-5-[2-(difluoromethoxy)pyrimidin-5-yl]-7-((1S)-1-[1-(2-fluorophenyl)-1H-1,2,3-triazol-4-yl]propyl)-7H-pyrrolo[2,3-d]pyrimidine-6-carbonitrile;

4-amino-5-(4-chlorophenyl)-7-[[1-(propan-2-yl)-1H-pyrazol-4-yl]methyl]-7H-pyrrolo[2,3-d]pyrimidine-6-carbonitrile;

4-amino-5-(4-chlorophenyl)-7-[[1-(2-fluorophenyl)-1H-1,2,3-triazol-4-yl]methyl]-7H-pyrrolo[2,3-d]pyrimidine-6-carbonitrile;

5-(2-fluoro-4-methoxyphenyl)-7-{1-[2-(2-fluorophenyl)-1H-imidazol-5-yl]ethyl}-7H-pyrrolo[2,3-d]pyrimidin-4-amine;

5-(3-fluoro-4-methylphenyl)-7-{1-[2-(2-fluorophenyl)-1H-imidazol-5-yl]ethyl}-7H-pyrrolo[2,3-d]pyrimidin-4-amine;

7-{1-[2-(2-fluorophenyl)-1H-imidazol-5-yl]ethyl}-5-[4-(2H-1,2,3-triazol-2-yl)phenyl]-7H-pyrrolo[2,3-d]pyrimidin-4-amine;

5-(4-ethoxy-3-fluorophenyl)-7-[[1-(2-fluorophenyl)-1H-1,2,3-triazol-4-yl]methyl]-7H-pyrrolo[2,3-d]pyrimidin-4-amine;

5-(4-chloro-2-methoxyphenyl)-7-[[1-(2-fluorophenyl)-1H-1,2,3-triazol-4-yl]methyl]-7H-pyrrolo[2,3-d]pyrimidin-4-amine;

5-[4-(difluoromethoxy)phenyl]-7-[[1-(2-fluorophenyl)-1H-1,2,3-triazol-4-yl]methyl]-7H-pyrrolo[2,3-d]pyrimidin-4-amine;

7-{1-[1-(2-fluorophenyl)-1H-1,2,3-triazol-4-yl]ethyl}-5-[4-(methylsulfanyl)phenyl]-7H-pyrrolo[2,3-d]pyrimidin-4-amine;

5-[4-(difluoromethoxy)phenyl]-7-{1-[1-(2-fluorophenyl)-1H-1,2,3-triazol-4-yl]ethyl}-7H-pyrrolo[2,3-d]pyrimidin-4-amine;

5-[2-fluoro-4-(methylsulfanyl)phenyl]-7-{1-[1-(2-fluorophenyl)-1H-1,2,3-triazol-4-yl]ethyl}-7H-pyrrolo[2,3-d]pyrimidin-4-amine;

5-(4-chloro-3-fluorophenyl)-7-{1-[1-(2-fluorophenyl)-1H-1,2,3-triazol-4-yl]ethyl}-7H-pyrrolo[2,3-d]pyrimidin-4-amine;

5-(3-chloro-5-fluorophenyl)-7-{1-[1-(2-fluorophenyl)-1H-1,2,3-triazol-4-yl]ethyl}-7H-pyrrolo[2,3-d]pyrimidin-4-amine;

5-cyclopropyl-7-((1S)-1-[1-(2-fluorophenyl)-1H-1,2,3-triazol-4-yl]ethyl)-7H-pyrrolo[2,3-d]pyrimidin-4-amine;

4-(4-amino-7-((1S)-1-[1-(2-fluorophenyl)-1H-1,2,3-triazol-4-yl]ethyl)-7H-pyrrolo[2,3-d]pyrimidin-5-yl)-2-fluorobenzonitrile;

5-[4-(cyclopropyloxy)phenyl]-7-((1S)-1-[1-(2-fluorophenyl)-1H-1,2,3-triazol-4-yl]ethyl)-7H-pyrrolo[2,3-d]pyrimidin-4-amine;

5-(4-methoxypyrimidin-5-yl)-7-[(1S)-1-(1-phenyl-1H-1,2,3-triazol-4-yl)propyl]-7H-pyrrolo[2,3-d]pyrimidin-4-amine;

7-((1S)-1-[1-(2-fluorophenyl)-1H-1,2,3-triazol-4-yl]propyl)-5-(4-methoxypyrimidin-5-yl)-7H-pyrrolo[2,3-d]pyrimidin-4-amine;

5-[2-(difluoromethyl)pyrimidin-5-yl]-7-((1S)-1-[1-(2-fluorophenyl)-1H-1,2,3-triazol-4-yl]propyl)-7H-pyrrolo[2,3-d]pyrimidin-4-amine;

5-[2-(dimethylamino)pyrimidin-5-yl]-7-((1S)-1-[1-(2-fluorophenyl)-1H-1,2,3-triazol-4-yl]propyl)-7H-pyrrolo[2,3-d]pyrimidin-4-amine;

7-((1R)-1-[1-(2-fluorophenyl)-1H-1,2,3-triazol-4-yl]propyl)-5-(1H-pyrazol-3-yl)-7H-pyrrolo[2,3-d]pyrimidin-4-amine;

7-((1S)-1-[1-(4-fluorophenyl)-1H-1,2,3-triazol-4-yl]propyl)-5-(4-methoxypyrimidin-5-yl)-7H-pyrrolo[2,3-d]pyrimidin-4-amine;

7-((1S)-1-[1-(3,4-difluorophenyl)-1H-1,2,3-triazol-4-yl]propyl)-5-(4-methoxypyrimidin-5-yl)-7H-pyrrolo[2,3-d]pyrimidin-4-amine;

7-((1R)-1-[1-(3,4-difluorophenyl)-1H-1,2,3-triazol-4-yl]propyl)-5-(5-fluoro-6-methoxypyridin-3-yl)-7H-pyrrolo[2,3-d]pyrimidin-4-amine;

7-((1S)-1-[1-(2,4-difluorophenyl)-1H-1,2,3-triazol-4-yl]propyl)-5-(4-methoxypyrimidin-5-yl)-7H-pyrrolo[2,3-d]pyrimidin-4-amine;

7-((1R)-1-[1-(2,3-difluorophenyl)-1H-1,2,3-triazol-4-yl]propyl)-5-(5-fluoro-2-methoxypyridin-3-yl)-7H-pyrrolo[2,3-d]pyrimidin-4-amine;

5-cyclopropyl-7-((1S)-1-[1-(2-fluorophenyl)-1H-1,2,3-triazol-4-yl]propyl)-7H-pyrrolo[2,3-d]pyrimidin-4-amine;

7-[(S)-cyclopropyl[1-(2-fluorophenyl)-1H-1,2,3-triazol-4-yl]methyl]-5-(4-methoxypyrimidin-5-yl)-7H-pyrrolo[2,3-d]pyrimidin-4-amine;

7-[(1S)-1-[1-(2-fluorophenyl)-5-methyl-1H-1,2,3-triazol-4-yl]ethyl]-5-[2-(trifluoromethyl)pyrimidin-5-yl]-7H-pyrrolo[2,3-d]pyrimidin-4-amine;

5-(4-chlorophenyl)-7-[(1S)-1-[3-(2-fluorophenyl)-1,2-oxazol-5-yl]ethyl]-7H-pyrrolo[2,3-d]pyrimidin-4-amine;

7-[(1S)-1-[3-(2-fluorophenyl)-1,2-oxazol-5-yl]ethyl]-5-(2-methoxypyrimidin-5-yl)-7H-pyrrolo[2,3-d]pyrimidin-4-amine;

5-(5-fluoro-2-methoxypyridin-3-yl)-7-[[1-(2-fluorophenyl)-1H-1,2,3-triazol-4-yl]methyl]-7H-pyrrolo[2,3-d]pyrimidin-4-amine;

5-[2-(difluoromethoxy)pyridin-3-yl]-7-[[1-(2-fluorophenyl)-1H-1,2,3-triazol-4-yl]methyl]-7H-pyrrolo[2,3-d]pyrimidin-4-amine;

7-{1-[1-(2-fluorophenyl)-1H-1,2,3-triazol-4-yl]ethyl}-5-[2-(trifluoromethyl)pyrimidin-5-yl]-7H-pyrrolo[2,3-d]pyrimidin-4-amine;

7-{1-[1-(2-fluorophenyl)-1H-1,2,3-triazol-4-yl]ethyl}-5-[4-methoxy-2-(trifluoromethyl)pyrimidin-5-yl]-7H-pyrrolo[2,3-d]pyrimidin-4-amine;

7-[[1-(2-fluorophenyl)-1H-1,2,3-triazol-4-yl]methyl]-5-[4-methoxy-2-(trifluoromethyl)pyrimidin-5-yl]-7H-pyrrolo[2,3-d]pyrimidin-4-amine;

5-(4-chlorophenyl)-7-[2-[1-(2-fluorophenyl)-1H-1,2,3-triazol-4-yl]propan-2-yl]-7H-pyrrolo[2,3-d]pyrimidin-4-amine;

5-(4-chlorophenyl)-7-{1-[1-(2-fluorophenyl)-1H-1,2,3-triazol-4-yl]ethyl}-6-methyl-7H-pyrrolo[2,3-d]pyrimidin-4-amine;

5-(4-chlorophenyl)-7-[[2-(2-fluorophenyl)-1H-imidazol-5-yl]methyl]-7H-pyrrolo[2,3-d]pyrimidin-4-amine;

5-(4-chlorophenyl)-7-[(2-phenyl-1H-imidazol-5-yl)methyl]-7H-pyrrolo[2,3-d]pyrimidin-4-amine;

5-(4-chlorophenyl)-7-[(3-cyclohexyl-1,2-oxazol-5-yl)methyl]-7H-pyrrolo[2,3-d]pyrimidin-4-amine;

7-({1-[4-(difluoromethyl)phenyl]-1H-pyrazol-4-yl)methyl}-5-(2-methoxypyridin-3-yl)-7H-pyrrolo[2,3-d]pyrimidin-4-amine;

7-((1S)-1-[1-(2,3-difluorophenyl)-1H-1,2,3-triazol-4-yl]propyl)-5-(4-methoxypyrimidin-5-yl)-7H-pyrrolo[2,3-d]pyrimidin-4-amine;

4-amino-5-[6-(cyclopropyloxy)pyridin-3-yl]-7-((1S)-1-[1-(2,4-difluorophenyl)-1H-1,2,3-triazol-4-yl]ethyl)-7H-pyrrolo[2,3-d]pyrimidine-6-carbonitrile; and

4-amino-7-((1S)-1-[1-(3,4-difluorophenyl)-1H-1,2,3-triazol-4-yl]propyl)-5-[2-(trifluoromethyl)pyrimidin-5-yl]-7H-pyrrolo[2,3-d]pyrimidine-6-carbonitrile;

or a pharmaceutically acceptable salt thereof.

14. The compound of claim 1, wherein the compound is selected from the group consisting of

7-((1S)-1-[1-(2,4-difluorophenyl)-1H-1,2,3-triazol-4-yl]propyl)-5-[2-(trifluoromethyl)pyrimidin-5-yl]-7H-pyrrolo[2,3-d]pyrimidin-4-amine;

4-amino-7-([1-(2-fluorophenyl)-1H-pyrazol-4-yl]methyl)-5-[2-(trifluoromethyl)pyrimidin-5-yl]-7H-pyrrolo[2,3-d]pyrimidine-6-carbonitrile;

4-amino-7-((1S)-1-[1-(2-fluorophenyl)-1H-pyrazol-4-yl]ethyl)-5-[2-(trifluoromethyl)pyrimidin-5-yl]-7H-pyrrolo[2,3-d]pyrimidine-6-carbonitrile;

4-amino-7-((1S)-1-[1-(2-fluorophenyl)-1H-pyrazol-4-yl]propyl)-5-[2-(trifluoromethyl)pyrimidin-5-yl]-7H-pyrrolo[2,3-d]pyrimidine-6-carbonitrile;

4-amino-7-((1R)-1-[1-(2-fluorophenyl)-1H-pyrazol-4-yl]propyl)-5-[2-(trifluoromethyl)pyrimidin-5-yl]-7H-pyrrolo[2,3-d]pyrimidine-6-carbonitrile;

4-amino-7-((1S)-1-[1-(2,4-difluorophenyl)-1H-pyrazol-4-yl]ethyl)-5-[2-(trifluoromethyl)pyrimidin-5-yl]-7H-pyrrolo[2,3-d]pyrimidine-6-carbonitrile;

4-amino-7-((1S)-1-[1-(2,4-difluorophenyl)-1H-1,2,3-triazol-4-yl]propyl)-5-[2-(trifluoromethyl)pyrimidin-5-yl]-7H-pyrrolo[2,3-d]pyrimidine-6-carbonitrile;

4-amino-7-((1S)-1-[1-(2,4-difluorophenyl)-1H-pyrazol-4-yl]propyl)-5-[2-(trifluoromethyl)pyrimidin-5-yl]-7H-pyrrolo[2,3-d]pyrimidine-6-carbonitrile;

4-amino-7-((1R)-1-[1-(2,4-difluorophenyl)-1H-pyrazol-4-yl]propyl)-5-[2-(trifluoromethyl)pyrimidin-5-yl]-7H-pyrrolo[2,3-d]pyrimidine-6-carbonitrile;

and

4-amino-7-([1-(2,4-difluorophenyl)-1H-pyrazol-4-yl]methyl)-5-[2-(trifluoromethyl)pyrimidin-5-yl]-7H-pyrrolo[2,3-d]pyrimidine-6-carbonitrile;

or a pharmaceutically acceptable salt thereof.

15. The compound 7-((1S)-1-[1-(2,4-difluorophenyl)-1H-1,2,3-triazol-4-yl]propyl)-5-[2-(trifluoromethyl)pyrimidin-5-yl]-7H-pyrrolo[2,3-d]pyrimidin-4-amine or a pharmaceutically acceptable salt thereof.
16. The compound 4-amino-7-([1-(2-fluorophenyl)-1H-pyrazol-4-yl]methyl)-5-[2-(trifluoromethyl)pyrimidin-5-yl]-7H-pyrrolo[2,3-d]pyrimidine-6-carbonitrile or a pharmaceutically acceptable salt thereof.
17. The compound 4-amino-7-((1S)-1-[1-(2-fluorophenyl)-1H-pyrazol-4-yl]ethyl)-5-[2-(trifluoromethyl)pyrimidin-5-yl]-7H-pyrrolo[2,3-d]pyrimidine-6-carbonitrile or a pharmaceutically acceptable salt thereof.
18. The compound 4-amino-7-((1S)-1-[1-(2-fluorophenyl)-1H-pyrazol-4-yl]propyl)-5-[2-(trifluoromethyl)pyrimidin-5-yl]-7H-pyrrolo[2,3-d]pyrimidine-6-carbonitrile or a pharmaceutically acceptable salt thereof.

19. The compound 4-amino-7-[(1S)-1-[1-(2,4-difluorophenyl)-1H-pyrazol-4-yl]propyl]-5-[2-(trifluoromethyl)pyrimidin-5-yl]-7H-pyrrolo[2,3-d]pyrimidine-6-carbonitrile or a pharmaceutically acceptable salt thereof.
20. A pharmaceutical composition comprising a therapeutically effective amount of one or more of a compound according to any one of claims 1 to 19, or a pharmaceutically acceptable salt thereof together with a pharmaceutically acceptable carrier.