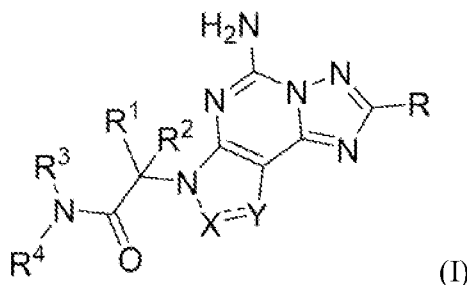


WHAT IS CLAIMED IS:

1. A compound of formula (I)



(I)

or a stereoisomer thereof, or a pharmaceutically acceptable salt thereof,

wherein:

X is N or C(=O) or CR^a;

Y is CH or NR^a;

===== is a single or double bond;

R^a is independently selected from hydrogen, -C₁₋₆alkyl, -C₃₋₈cycloalkyl, heterocyclyl, aryl, or heteroaryl;

R is an aryl group or a 5 or 6-membered heteroaryl group containing 1 or 2 heteroatoms independently selected from -N= or =N-, -NH-, -O-, -S-, -SO- or -SO₂-, and said aryl or heteroaryl group is optionally substituted with at least one substituent R¹⁵;

R¹ and R², which may be the same or different, are each independently selected from hydrogen, -C₁₋₆alkyl, -C₂₋₆alkenyl, -C₂₋₆alkynyl, cycloalkyl, heterocyclyl, aryl, or heteroaryl, wherein said C₁₋₆alkyl, -C₂₋₆alkenyl, -C₂₋₆alkynyl, cycloalkyl, heterocyclyl, aryl, or heteroaryl are each independently optionally substituted with at least one substituent R¹⁵, provided that R¹ and R² are not both hydrogen; or

R¹ and R², together with the carbon atom to which they are attached, form a 3- to 12-membered saturated, partially or fully unsaturated ring comprising 0, 1 or 2 heteroatoms independently selected from -N= or =N-, -NH-, -O-, -S-, -SO- or -SO₂-, and said ring is optionally substituted with at least one substituent R¹⁵;

R³ is hydrogen;

R⁴ is hydrogen, C₁₋₆alkyl, C₃₋₈cycloalkyl, aryl, heteroaryl, or heterocyclyl, wherein each of said C₁₋₆alkyl, C₃₋₈cycloalkyl, aryl, heteroaryl, or heterocyclyl is independently and optionally substituted with one or two substituents R⁵; or two adjacent substituents R⁵ on the C₃₋₈cycloalkyl, aryl, heteroaryl, or heterocyclyl ring together with the atoms they are attached form a fused ring;

R^5 is independently hydrogen, halogen, $-C_{1-6}alkyl$, $-C_{2-6}alkenyl$, $-C_{2-6}alkynyl$, $haloC_{1-6}alkyl$, $haloC_{2-6}alkenyl$, $haloC_{2-6}alkynyl$, $C_{3-8}cycloalkyl$, heterocyclyl, aryl, heteroaryl, $-CN$, $-NO_2$, oxo, $-OR^b$, $-SO_2R^b$, $-COR^b$, $-CO_2R^b$, $-CONR^bR^c$, $-C(=NR^b)NR^cR^d$, $-NR^bR^c$, $-NR^bCOR^c$, $-NR^bCONR^cR^d$, $-NR^bCO_2R^c$, $-NR^bSONR^cR^d$, $-NR^bSO_2NR^cR^d$, or $-NR^bSO_2R^c$, wherein, each of said $-C_{1-6}alkyl$, $-C_{2-6}alkenyl$, $-C_{2-6}alkynyl$, $haloC_{1-6}alkyl$, $haloC_{2-6}alkenyl$, $haloC_{2-6}alkynyl$, $C_{3-8}cycloalkyl$, heterocyclyl, aryl, or heteroaryl is independently and optionally substituted with one or two substituents R^6 ;

R^6 is independently hydrogen, halogen, $-C_{1-6}alkyl$, $-C_{2-6}alkenyl$, $-C_{2-6}alkynyl$, $haloC_{1-6}alkyl$, $haloC_{2-6}alkenyl$, $haloC_{2-6}alkynyl$, $C_{3-8}cycloalkyl$, heterocyclyl, aryl, heteroaryl, $-CN$, $-NO_2$, oxo, or $-OR^e$, wherein, as R^6 , each of said $-C_{1-6}alkyl$, $-C_{2-6}alkenyl$, $-C_{2-6}alkynyl$, $haloC_{1-6}alkyl$, $haloC_{2-6}alkenyl$, $haloC_{2-6}alkynyl$, $cycloalkyl$, heterocyclyl, aryl, or heteroaryl is each independently and optionally substituted with one or two substituents R^7 ;

R^7 is, at each of its occurrences, is independently hydrogen, halogen, $-C_{1-6}alkyl$, $-C_{2-6}alkenyl$, $-C_{2-6}alkynyl$, $cycloalkyl$, heterocyclyl, aryl, heteroaryl, $-CN$, $-NO_2$, oxo, $-C_{1-6}alkoxy$, $-C_{1-6}alkoxy-C_{1-6}alkoxy$ or hydroxyl;

R^b , R^c , R^d , R^e , which may be the same or different, are each independently hydrogen, $-C_{1-6}alkyl$, $C_{1-6}alkoxy-C_{1-6}alkyl$, $-C_{2-6}alkenyl$, $-C_{2-6}alkynyl$, $cycloalkyl$, heterocyclyl, aryl, or heteroaryl, wherein said $C_{1-6}alkyl$, $-C_{2-6}alkenyl$, $-C_{2-6}alkynyl$, $cycloalkyl$, heterocyclyl, aryl, or heteroaryl are each independently optionally substituted with at least one substituent R^{15} ; and

R^{15} is independently hydrogen, halogen, cyano, $-C_{1-6}alkyl$, $-C_{2-6}alkenyl$, $-C_{2-6}alkynyl$, $haloC_{1-6}alkyl$, $haloC_{2-6}alkenyl$, $haloC_{2-6}alkynyl$, $-C_{1-6}alkoxy$, $C_{3-8}cycloalkyloxy$, $cycloalkyl$, heterocyclyl, aryl, or heteroaryl.

2. The compound of claim 1, wherein X is N and Y is CR^a so that X and Y form a $-N=CR^a$ - moiety, wherein R^a is defined as with formula (I); preferably R^a is hydrogen or $C1-3alkyl$; more preferably R^a is hydrogen.
3. The compound of claim 1, wherein X is $C(=O)$ and Y is NR^a , wherein R^a is defined as with formula (I); preferably each R^a is independently selected from hydrogen and methyl.

4. The compound of claim 1, wherein X is CR^a and Y is CR^a so that X and Y form a —CR^a=CR^a— moiety, wherein R^a is defined as with formula (I); preferably R^a is hydrogen or C₁₋₃alkyl; more preferably R^a is hydrogen.
5. The compound of claim 1, wherein R is a C-linked 5 or 6-membered heteroaryl group containing 1 or 2 heteroatoms independently selected from -N= or =N-, -NH-, -O-, or -S-.
6. The compound of claim 5, wherein R is furanyl, pyrazinyl or thiazolyl; preferably, furan-2-yl, 3-methylpyrazin-2-yl or thiazol-2-yl.
7. The compound of claim 1, wherein R¹ is hydrogen and R² is phenyl; or R¹ is hydrogen and R² is C₁₋₆alkyl (preferably C₁₋₄alkyl, e.g., propyl or but-2-yl); or R¹ is C₁₋₆alkyl (preferably C₁₋₄alkyl, e.g., methyl, ethyl) and R² is phenyl; or R¹ is C₁₋₆alkyl (preferably C₁₋₄alkyl, e.g., methyl) and R² is pyridinyl; or R¹ is C₁₋₆alkyl (preferably C₁₋₄alkyl, e.g., methyl) and R² is C₁₋₆alkyl substituted with heterocyclyl, aryl, or heteroaryl (preferably a C₁₋₄alkyl substituted with a phenyl group, e.g., benzyl), or R¹ and R², together with the carbon atom to which they are attached, form a 3- to 12-membered saturated ring comprising 0 heteroatom.
8. The compound of claim 1, wherein R⁴ is C₁₋₆alkyl (preferably C₁₋₃alkyl) optionally substituted with one or two substituents R⁵, wherein each R⁵ is independently selected from aryl, heteroaryl, heterocyclyl, cycloalkyl, -OR^b or -NR^bR^c as defined with formula (I).
9. The compound of claim 1, wherein R⁴ is C₁₋₆alkyl (preferably C₁₋₃alkyl) optionally substituted with an aryl group as R⁵, said aryl group is optionally substituted with halogen, -C₁₋₆alkyl, haloC₁₋₆alkyl, or -OR^c, wherein R^c is C₁₋₆alkyl optionally substituted with halogen. In a further preferred embodiment, the aryl group is phenyl or substituted phenyl (e.g., benzo[d][1,3]dioxol-5-yl).
10. The compound of claim 9, wherein the phenyl group is optionally substituted with C₁₋₆alkyl, C₁₋₆alkoxy, haloC₁₋₆alkyl, haloC₁₋₆alkoxy, F, Cl, or Br. More preferably, the phenyl group is optionally substituted with methoxy, fluoro, trifluoromethoxy, trifluoromethyl, or methyl.
11. The compound of claim 9, wherein R⁴ is phenylmethyl, 2-methoxyphenylmethyl, 3-methoxyphenylmethyl, 4-methoxyphenylmethyl, 2-fluorophenylmethyl, 2-(trifluoromethoxy)phenylmethyl, 4-(trifluoromethoxy)phenylmethyl, 1-phenylethyl, (S)-1-phenylethyl, (R)-1-phenylethyl, 2-phenylethyl, 3-(trifluoromethyl)phenylmethyl, 4-(trifluoromethyl)phenylmethyl, 3-methylphenylmethyl, 4-methylphenylmethyl, 4-fluorophenylmethyl, or (benzo[d][1,3]dioxol-5-yl)methyl.

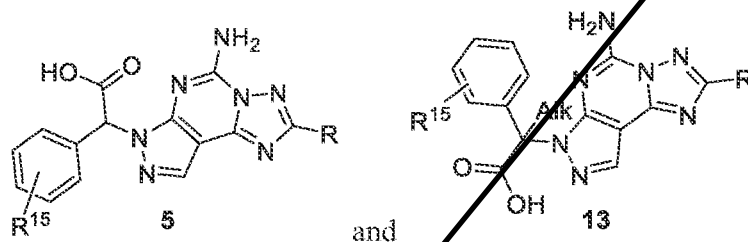
12. The compound of claim 1, wherein R^4 is C_{1-6} alkyl (preferably C_{1-3} alkyl) optionally substituted with a heterocyclyl group as R^5 , said heterocyclyl group is optionally substituted with aryl and $-OR^e$, wherein said aryl is optionally substituted with R^7 , and R^e and R^7 are as defined with formula (I).
13. The compound of claim 12, wherein the heterocyclyl group is 3- to 12-membered heterocyclyl, either monocyclic or bicyclic, preferably 4-, 5-, 6-, 7-, or 8-membered monocyclic heterocyclyl ring comprising 1 or 2 or 3 heteroatoms independently selected from $-N=$ or $=N-$, $-NH-$, $-O-$, $-S-$, $-SO-$ or $-SO_2-$.
14. The compound of claim 12, wherein the heterocyclyl ring is oxetanyl, piperazinyl, tetrahydrofuranyl, pyranyl, or morpholino, each of which is optionally substituted with hydroxyl.
15. The compound of claim 12, wherein R^4 is (3-hydroxyoxetan-3-yl)methyl, oxetan-3-ylmethyl, 2-(4-(4-(2-methoxyethoxy)phenyl)piperazin-1-yl)ethyl, 2-(piperazin-1-yl)ethyl, (4-methylpiperazin-1-yl)ethyl, (tetrahydrofuran-2-yl)methyl, ((S)-tetrahydrofuran-3-yl)methyl, ((R)-tetrahydrofuran-2-yl)methyl, ((S)-tetrahydrofuran-2-yl)methyl, ((R)-tetrahydrofuran-3-yl)methyl, 2-(tetrahydrofuran-3-yl)ethyl, (tetrahydro-2H-pyran-3-yl)methyl, 2-(tetrahydro-2H-pyran-4-yl)ethyl, (4-hydroxytetrahydro-2H-pyran-4-yl)methyl, (tetrahydro-2H-pyran-4-yl)methyl, or 2-morpholinoethyl.
16. The compound of claim 1, wherein R^4 is C_{1-6} alkyl (preferably C_{1-3} alkyl) optionally substituted with a C_{3-8} cycloalkyl group as R^5 , said C_{3-8} cycloalkyl group is optionally substituted with hydroxyl.
17. The compound of claim 16, wherein said C_{3-8} cycloalkyl is cyclopropyl, cyclobutyl, cyclopentyl, cyclohexyl, cycloheptyl, or cyclooctyl; preferably cyclopropyl, cyclobutyl, or cyclohexyl.
18. The compound of claim 16, wherein R^4 is (1-hydroxycyclopropyl)methyl, (1-hydroxycyclobutyl)methyl or (1-hydroxycyclohexyl)methyl.
19. The compound of claim 1, wherein R^4 is C_{1-6} alkyl (preferably C_{1-3} alkyl) optionally substituted with a heteroaryl group as R^5 , said heteroaryl group is optionally substituted with halogen, C_{1-6} alkyl, C_{3-8} cycloalkyl, or $-OR^e$, wherein said C_{1-6} alkyl and C_{3-8} cycloalkyl is optionally substituted with hydroxy.

20. The compound of claim 19, wherein the heteroaryl group is pyridinyl including pyridin-2-yl, pyridin-3-yl or pyridin-4-yl, optionally substituted with hydroxycyclobutyl, methyl, methoxy, or halogen.
21. The compound of claim 19, wherein R⁴ is pyridin-2-ylmethyl, pyridin-4-ylmethyl, pyridin-3-ylmethyl, (6-(1-hydroxycyclobutyl)pyridin-2-yl)methyl, (6-methylpyridin-2-yl)methyl, (5-methylpyridin-2-yl)methyl, (4-methylpyridin-2-yl)methyl, (3-methylpyridin-2-yl)methyl, (6-methoxypyridin-2-yl)methyl, (5-methoxypyridin-2-yl)methyl, (4-methoxypyridin-2-yl)methyl, (3-methoxypyridin-2-yl)methyl, (6-fluoropyridin-2-yl)methyl, (5-fluoropyridin-2-yl)methyl, (4-fluoropyridin-2-yl)methyl, or (3-fluoropyridin-2-yl)methyl.
22. The compound of claim 1, wherein R⁴ is C₁₋₆alkyl (preferably C₁₋₃alkyl) optionally substituted with -OR^b or -NR^bR^c as R⁵, wherein R^b and R^c are independently hydrogen, C₁₋₆alkyl, or C₁₋₆alkoxyC₁₋₆alkyl.
23. The compound of claim 22, wherein R⁴ is 2-methoxyethyl, 2-(dimethylamino)ethyl, 2-(2-methoxyethoxy)ethyl, 2-(methylamino)ethyl, 2-hydroxypropyl, (R)-2-hydroxypropyl, or 2-hydroxyethyl.
24. The compound of claim 1, wherein R⁴ is C₃₋₈cycloalkyl optionally substituted with C₁₋₆alkyl, C₁₋₆alkoxy, or hydroxyl, said C₃₋₈cycloalkyl is selected from cyclopropyl, cyclobutyl, cyclopentyl, cyclohexyl, cycloheptyl, and cyclooctyl; preferably cyclopropyl, cyclobutyl, cyclopentyl, cyclohexyl and cycloheptyl.
25. The compound of claim 24, wherein R⁴ is 4-substituted cyclohexyl wherein the substituent at position 4 and the amino group attached to position 1 are in (cis) or (trans) configurations, preferably in (cis) configuration.
26. The compound of claim 24, wherein R⁴ is 3-substituted cyclobutyl wherein the substituent at position 3 and the amino group attached to position 1 are in (cis) or (trans) configurations, preferably in (cis) configuration.
27. The compound of claim 24, wherein R⁴ is 2-hydroxycycloheptyl, 3-hydroxycycloheptyl, 4-hydroxycycloheptyl, 5-hydroxycycloheptyl, cyclohexyl, 4-hydroxy-4-methylcyclohexyl, (trans)-4-hydroxycyclohexyl, (cis)-4-hydroxy-4-methylcyclohexyl, (cis)-4-hydroxycyclohexyl, (1S,4S)-4-hydroxy-4-methylcyclohexyl, (1S,4S)-4-hydroxycyclohexyl, (1S,2R)-2-hydroxycyclohexyl, (1S,4S)-4-hydroxy-4-methylcyclohexyl, (1S,2S)-2-hydroxycyclohexyl, (1R,2S)-2-hydroxycyclohexyl, (trans)-4-hydroxy-4-methylcyclohexyl, 3-hydroxycyclohexyl, (1R,3R)-3-hydroxycyclohexyl, (1S,3R)-3-hydroxycyclohexyl, (1R,3S)-

3-hydroxycyclohexyl, (1S,3S)-3-hydroxycyclohexyl, 4-oxocyclohexyl, acetyloxycyclohexyl, cyclopentyl, 2-hydroxycyclopentyl, 3-hydroxycyclopentyl, (1S,2R)-2-hydroxycyclopentyl, (1S,2S)-2-hydroxycyclopentyl, (1R,2S)-2-hydroxycyclopentyl, (1R,3R)-3-hydroxycyclopentyl, (1S,3S)-3-hydroxycyclopentyl, (1S,3R)-3-hydroxycyclopentyl, (1R,3S)-3-hydroxycyclopentyl, (trans)-3-hydroxycyclobutyl, (cis)-3-hydroxycyclobutyl, (cis)-3-hydroxy-3-methylcyclobutyl, 1-(hydroxymethyl)cyclopropyl, cyclopropyl, 1,2,3,4-tetrahydronaphthalen-1-yl, or 2,3-dihydro-1H-inden-1-yl.

28. The compound of claim 1, wherein R⁴ is aryl which is a phenyl group.
29. The compound of claim 1, wherein R⁴ is heteroaryl which is pyridinyl.
30. The compound of claim 29, wherein R⁴ is pyridin-3-yl, pyridin-4-yl, or pyridin-2-yl.
31. The compound of claim 1, wherein R⁴ is heterocyclyl selected from pyranyl, piperidinyl, pyrrolidinyl, tetrahydrofuran-yl, chroman-4-yl, or dihydrobenzofuran-3-yl, each of which is optionally substituted as defined with formula (I).
32. The compound of claim 31, wherein the heterocyclyl is optionally substituted with aryl, oxo, or hydroxy, wherein aryl is further optionally substituted with -C₁₋₆alkoxy-C₁₋₆alkoxy.
33. The compound of claim 31, wherein R⁴ is tetrahydro-2H-pyran-4-yl, (S)-tetrahydro-2H-pyran-3-yl, (R)-tetrahydro-2H-pyran-3-yl, tetrahydro-2H-pyran-4-yl, (R)-chroman-4-yl, (S)-chroman-4-yl, 2,3-dihydrobenzofuran-3-yl, 1-(4-(2-methoxyethoxy)phenyl)piperidin-4-yl, (R)-piperidin-3-yl(E652), (S)-piperidin-3-yl, 4-hydroxypiperidin-1-yl, piperidin-4-yl, (S)-5-oxopyrrolidin-3-yl, (S)-2-oxopyrrolidin-3-yl, (R)-2-oxopyrrolidin-3-yl, 4-oxocyclohexan-1-yl, (3S,4R)-4-hydroxytetrahydrofuran-3-yl, (3S,4S)-4-hydroxytetrahydrofuran-3-yl, (3S,4S)-4-hydroxytetrahydrofuran-3-yl, or (3R,4R)-4-hydroxytetrahydrofuran-3-yl.
34. The compound of claim 1, which is Example Nos. 1, 1A, 1B, 2, 3, 4, 4A, 4B, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 17A, 17B, 18, 18A, 18B, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 31A, 31B, 32, 33, 33A, 33B, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 48A, 48B, 49, 50, 51, 52, 52B, 53, 54, 55, 56, 57, 58, 58A, 58B, 59, 60, 61, 62, 63, 64, 65, 66, 66B, 67, 68, 69, 69A, 69B, 70, 71, 72, 73, 74, 75, 76, 76A, 76B, 77, 78, 79, 80, 81, 82, 82A, 82B, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 92A, 92B, 93, 94, 95, 96, 97, 98, 99, 100, 101, 102, 102B, 103, 104, 104B, 105, 105B, 106, 106B, 107, 107B, 108, 108B, 109, 109B, 110, 110B, 111, 111B, 112, 112B, 113B, 114, 114B, 115, 115B, 116, 117, 117B, 118, 118B, 119, 119B, 123, 128, 128B, 130, 132, 133, 135, 136, 137, 138, 139, 140, 141B, 142B, 143B, 144B, 145B, 146B-1, 146B-2, 147, 147B, 148B, 149B, 150B, or 151B.

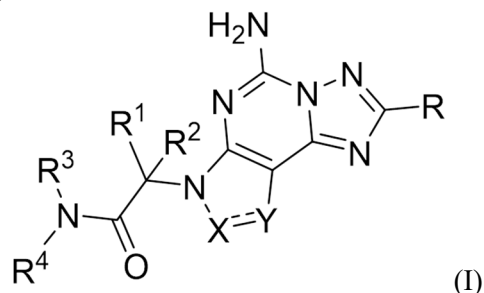
35. A pharmaceutical composition comprising the compound of any of claims 1-34 or a stereoisomer thereof, or a pharmaceutically acceptable salt thereof and a pharmaceutically acceptable excipient.
36. A method of treating cancer, comprising administering a subject in need thereof the compound of any of claims 1-34 or a stereoisomer thereof, or a pharmaceutically acceptable salt thereof.
37. Compounds of formulas **5** and **13**



wherein R and R¹⁵ are as defined with formula (1).

Claims:

1. A compound of formula (I)



or a stereoisomer thereof, or a pharmaceutically acceptable salt thereof,

wherein:

X is N, C(=O), or CR^a;

Y is CR^a or NR^a;

----- is a single or double bond;

R^a is independently selected from hydrogen, -C₁₋₆alkyl, -C₃₋₈cycloalkyl, heterocyclyl, aryl, or heteroaryl;

R is an aryl group or a 5 or 6-membered heteroaryl group containing 1 or 2 heteroatoms independently selected from -N=, =N-, -NH-, -O-, -S-, -SO- or -SO₂-, and said aryl or heteroaryl group is optionally substituted with at least one substituent R¹⁵;

R¹ and R², which may be the same or different, are each independently selected from hydrogen, -C₁₋₆alkyl, -C₂₋₆alkenyl, -C₂₋₆alkynyl, cycloalkyl, heterocyclyl, aryl, or heteroaryl, wherein said C₁₋₆alkyl, -C₂₋₆alkenyl, -C₂₋₆alkynyl, cycloalkyl, heterocyclyl, aryl, or heteroaryl are each independently optionally substituted with at least one substituent R¹⁵, provided that R¹ and R² are not both hydrogen; or

R¹ and R², together with the carbon atom to which they are attached, form a 3- to 12-membered saturated, partially or fully unsaturated ring comprising 0, 1 or 2 heteroatoms independently selected from -N=, =N-, -NH-, -O-, -S-, -SO- or -SO₂-, and said ring is optionally substituted with at least one substituent R¹⁵;

R³ is hydrogen;

R⁴ is hydrogen, C₁₋₆alkyl, C₃₋₈cycloalkyl, aryl, heteroaryl, or heterocyclyl, wherein each of said C₁₋₆alkyl, C₃₋₈cycloalkyl, aryl, heteroaryl, or heterocyclyl is independently and optionally substituted with one or two substituents R⁵; or two adjacent substituents R⁵ on the C₃₋₈cycloalkyl, aryl, heteroaryl, or heterocyclyl ring together with the atoms they are attached form a fused ring;

R⁵ is independently hydrogen, halogen, -C₁₋₆alkyl, -C₂₋₆alkenyl, -C₂₋₆alkynyl, haloC₁₋₆alkyl, haloC₂₋₆alkenyl, haloC₂₋₆alkynyl, C₃₋₈cycloalkyl, heterocyclyl, aryl, heteroaryl, -CN, -NO₂, oxo, -OR^b, -SO₂R^b, -COR^b, -CO₂R^b, -CONR^bR^c, -C(=NR^b)NR^cR^d, -NR^bR^c, -NR^bCOR^c, -NR^bCONR^cR^d, -NR^bCO₂R^c, -NR^bSONR^cR^d, -NR^bSO₂NR^cR^d, or -NR^bSO₂R^c, wherein, each of said -C₁₋₆alkyl, -C₂₋₆alkenyl, -C₂₋

alkynyl, haloC₁₋₆alkyl, haloC₂₋₆alkenyl, haloC₂₋₆alkynyl, C₃₋₈cycloalkyl, heterocyclyl, aryl, or heteroaryl is independently and optionally substituted with one or two substituents R⁶;

R⁶ is independently hydrogen, halogen, -C₁₋₆alkyl, -C₂₋₆alkenyl, -C₂₋₆alkynyl, haloC₁₋₆alkyl, haloC₂₋₆alkenyl, haloC₂₋₆alkynyl, C₃₋₈cycloalkyl, heterocyclyl, aryl, heteroaryl, -CN, -NO₂, oxo, or -OR^e, wherein, said -C₁₋₆alkyl, -C₂₋₆alkenyl, -C₂₋₆alkynyl, haloC₁₋₆alkyl, haloC₂₋₆alkenyl, haloC₂₋₆alkynyl, cycloalkyl, heterocyclyl, aryl, or heteroaryl is each independently and optionally substituted with one or two substituents R⁷;

R⁷ for each occurrence is independently hydrogen, halogen, -C₁₋₆alkyl, -C₂₋₆alkenyl, -C₂₋₆alkynyl, cycloalkyl, heterocyclyl, aryl, heteroaryl, -CN, -NO₂, oxo, -C₁₋₆alkoxy, -C₁₋₆alkoxy-C₁₋₆alkoxy or hydroxyl;

R^b, R^c, R^d, R^e, which may be the same or different, are each independently hydrogen, -C₁₋₆alkyl, C₁₋₆alkoxy-C₁₋₆alkyl-, -C₂₋₆alkenyl, -C₂₋₆alkynyl, cycloalkyl, heterocyclyl, aryl, or heteroaryl, wherein said C₁₋₆alkyl, -C₂₋₆alkenyl, -C₂₋₆alkynyl, cycloalkyl, heterocyclyl, aryl, or heteroaryl are each independently optionally substituted with at least one substituent R¹⁵; and

R¹⁵ is independently hydrogen, halogen, cyano, -C₁₋₆alkyl, -C₂₋₆alkenyl, -C₂₋₆alkynyl, haloC₁₋₆alkyl, haloC₂₋₆alkenyl, haloC₂₋₆alkynyl, -C₁₋₆alkoxy, C₃₋₈cycloalkyloxy, cycloalkyl, heterocyclyl, aryl, or heteroaryl.

2. The compound of claim 1, wherein X is N and Y is CR^a so that X and Y form a -N=CR^a- moiety.

3. The compound of claim 1, wherein X is N and Y is CR^a so that X and Y form a -N=CR^a- moiety, wherein R^a is hydrogen or C₁₋₃alkyl; and/or

wherein R¹ is hydrogen and R² is C₁₋₄alkyl; R¹ is C₁₋₄alkyl and R² is phenyl; R¹ is C₁₋₄alkyl and R² is pyridinyl; or R¹ is C₁₋₄alkyl and R² is a C₁₋₄alkyl substituted with a phenyl group.

4. The compound of claim 1, wherein X is N and Y is CR^a so that X and Y form a -N=CR^a- moiety, wherein R^a is hydrogen; and/or

wherein R¹ is hydrogen and R² is propyl or but-2-yl; R¹ is methyl, or ethyl and R² is phenyl; R¹ is methyl and R² is pyridinyl; or R¹ is methyl and R² is benzyl.

5. The compound of claim 1, wherein R is furanyl, pyrazinyl or thiazolyl.

6. The compound of claim 1, wherein R is furan-2-yl, 3-methylpyrazin-2-yl or thiazol-2-yl.

7. The compound of claim 1, wherein R¹ is hydrogen and R² is phenyl; or R¹ is hydrogen and R² is C₁₋₆alkyl; or R¹ is C₁₋₆alkyl and R² is phenyl; or R¹ is C₁₋₆alkyl and R² is pyridinyl; or R¹ is C₁₋₆alkyl and

R² is C₁₋₆alkyl substituted with heterocyclyl, aryl, or heteroaryl, or R¹ and R², together with the carbon atom to which they are attached, form a 3- to 12-membered saturated ring comprising 0 heteroatom.

8. The compound of claim 1, wherein R⁴ is C₁₋₆alkyl optionally substituted with one or two substituents R⁵, wherein each R⁵ is independently selected from aryl, heteroaryl, heterocyclyl, cycloalkyl, -OR^b or -NR^bR^c as defined with formula (I).

9. The compound of claim 1, wherein R⁴ is C₁₋₆alkyl, wherein R⁴ is optionally substituted with a R⁵ substituent selected from the group consisting of:

- i) an aryl group, wherein said aryl group is optionally substituted with halogen, -C₁₋₆alkyl, haloC₁₋₆alkyl, or -OR^e, wherein R^e is C₁₋₆alkyl optionally substituted with halogen,
- ii) a heterocyclyl group, wherein said heterocyclyl group is optionally substituted with aryl and -OR^e, wherein said aryl is optionally substituted with R⁷, and R^e and R⁷,
- iii) a C₃₋₈cycloalkyl group, wherein said C₃₋₈cycloalkyl group is optionally substituted with hydroxyl, and
- iv) a heteroaryl group, wherein said heteroaryl group is optionally substituted with halogen, C₁₋₆alkyl, C₃₋₈cycloalkyl, or -OR^e, wherein said C₁₋₆alkyl and C₃₋₈cycloalkyl is optionally substituted with hydroxy.

10. The compound of claim 1, wherein R⁴ is C₁₋₆alkyl optionally substituted with a benzo[d][1,3]dioxol-5-yl, cyclopropyl, cyclobutyl, cyclopentyl, cyclohexyl or cycloheptyl.

11. The compound of claim 10, wherein R⁴ is:

- i) 4-substituted cyclohexyl wherein the substituent at position 4 and the amino group attached to position 1 are in (cis) configurations; or
- ii) a 3-substituted cyclobutyl wherein the substituent at position 3 and the amino group attached to position 1 are in (cis) configurations.

12. The compound of claim 9, wherein R⁵ is a phenyl group optionally substituted with C₁₋₆alkyl, C₁₋₆alkoxy, haloC₁₋₆alkyl, haloC₁₋₆alkoxy, F, Cl, or Br.

13. The compound of claim 9, wherein R⁵ is a 3- to 12-membered heterocyclyl, either monocyclic or bicyclic, comprising 1 or 2 or 3 heteroatoms independently selected from -N= or =N-, -NH-, -O-, -S-, -SO- or -SO₂-.

14. The compound of claim 9, wherein R^5 is a heterocyclyl ring selected from the group consisting of oxetanyl, piperaziny, tetrahydrofuranyl, pyranyl, and morpholino, each of which is optionally substituted with hydroxyl.
15. The compound of claim 9, wherein R^5 is a C_{3-8} cycloalkyl selected from the group consisting of cyclopropyl, cyclobutyl, cyclopentyl, cyclohexyl, cycloheptyl, and cyclooctyl.
16. The compound of claim 9, wherein R^5 is a heteroaryl group selected from the group consisting of pyridinyl including pyridin-2-yl, pyridin-3-yl and pyridin-4-yl, optionally substituted with hydroxycyclobutyl, methyl, methoxy, or halogen.
17. The compound of claim 9, wherein:
- i) R^5 is a phenyl group optionally substituted with methoxy, fluoro, trifluoromethoxy, trifluoromethyl, or methyl, or
 - ii) R^5 is a 4-, 5-, 6-, 7-, or 8-membered monocyclic heterocyclyl ring comprising 1 or 2 or 3 heteroatoms independently selected from -N= or =N-, -NH-, -O-, -S-, -SO- or -SO₂-, or
 - iii) R^5 is cyclopropyl, cyclobutyl, or cyclohexyl.
18. The compound of claim 1, wherein R^4 is C_{1-6} alkyl optionally substituted with -OR^b or -NR^bR^c, wherein R^b and R^c are independently hydrogen, C_{1-6} alkyl, or C_{1-6} alkoxy C_{1-6} alkyl-.
19. The compound of claim 18, wherein R^4 is 2-methoxyethyl, 2-(dimethylamino)ethyl, 2-(2-methoxyethoxy)ethyl, 2-(methylamino)ethyl, 2-hydroxypropyl, (R)-2-hydroxypropyl, or 2-hydroxyethyl.
20. The compound of claim 1, wherein R^4 is C_{3-8} cycloalkyl optionally substituted with C_{1-6} alkyl, C_{1-6} alkoxy, or hydroxyl, said C_{3-8} cycloalkyl is selected from the group consisting of cyclopropyl, cyclobutyl, cyclopentyl, cyclohexyl, cycloheptyl, and cyclooctyl.
21. The compound of claim 20, wherein:
- R^4 is 4-substituted cyclohexyl wherein the substituent at position 4 and the amino group attached to position 1 are in (cis) or (trans) configurations; or
 - R^4 is 3-substituted cyclobutyl wherein the substituent at position 3 and the amino group attached to position 1 are in (cis) or (trans) configurations.
22. The compound of claim 1, wherein R^4 is a phenyl group.

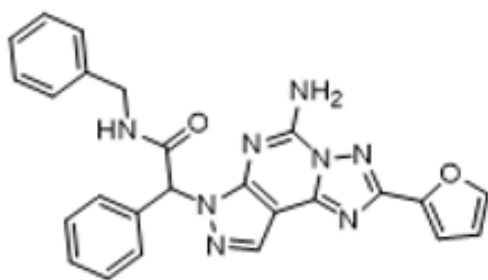
23. The compound of claim 1, wherein R⁴ is pyridin-3-yl, pyridin-4-yl, or pyridin-2-yl.
24. The compound of claim 1, wherein R⁴ is a heterocyclyl selected from pyran-2-yl, piperidin-2-yl, pyrrolidin-2-yl, tetrahydrofuran-2-yl, chroman-4-yl, or dihydrobenzofuran-3-yl, each of which is independently optionally substituted with one or two R⁵ substituents; or two adjacent R⁵ substituents on the heterocyclyl ring together with the atoms they are attached form a fused ring.
25. The compound of claim 24, wherein the heterocyclyl is optionally substituted with aryl, oxo, or hydroxy, wherein aryl is further optionally substituted with -C₁₋₆alkoxy-C₁₋₆alkoxy.
26. The compound of claim 1, wherein R⁴ is:
- phenylmethyl;
 - 2-methoxyphenylmethyl;
 - 3-methoxyphenylmethyl;
 - 4-methoxyphenylmethyl;
 - 2-fluorophenylmethyl;
 - 2-(trifluoromethoxy)phenylmethyl;
 - 4-(trifluoromethoxy)phenylmethyl;
 - 1-phenylethyl;
 - (S)-1-phenylethyl;
 - (R)-1-phenylethyl;
 - 2-phenylethyl;
 - 3-(trifluoromethyl)phenylmethyl;
 - 4-(trifluoromethyl)phenylmethyl;
 - 3-methylphenylmethyl;
 - 4-methylphenylmethyl;
 - 4-fluorophenylmethyl;
 - (benzo[d][1,3]dioxol-5-yl)methyl;
 - (3-hydroxyoxetan-3-yl)methyl;
 - oxetan-3-ylmethyl;
 - 2-(4-(4-(2-methoxyethoxy)phenyl)piperazin-1-yl)ethyl;
 - 2-(piperazin-1-yl)ethyl;
 - (tetrahydrofuran-2-yl)methyl;
 - ((S)-tetrahydrofuran-3-yl)methyl;
 - ((R)-tetrahydrofuran-2-yl)methyl;
 - ((S)-tetrahydrofuran-2-yl)methyl;

((R)-tetrahydrofuran-3-yl)methyl;
2-(tetrahydrofuran-3-yl)ethyl;
(tetrahydro-2H-pyran-3-yl)methyl;
2-(tetrahydro-2H-pyran-4-yl)ethyl;
(4-hydroxytetrahydro-2H-pyran-4-yl)methyl;
(tetrahydro-2H-pyran-4-yl)methyl;
2-morpholinoethyl;
(1-hydroxycyclopropyl)methyl;
(1-hydroxycyclobutyl)methyl;
(1-hydroxycyclohexyl)methyl;
pyridin-2-ylmethyl;
pyridin-4-ylmethyl;
pyridin-3-ylmethyl;
(6-(1-hydroxycyclobutyl)pyridin-2-yl)methyl;
(6-methylpyridin-2-yl)methyl;
(5-methylpyridin-2-yl)methyl;
(4-methylpyridin-2-yl)methyl;
(3-methylpyridin-2-yl)methyl;
(6-methoxypyridin-2-yl)methyl;
(5-methoxypyridin-2-yl)methyl;
(4-methoxypyridin-2-yl)methyl;
(3-methoxypyridin-2-yl)methyl;
(6-fluoropyridin-2-yl)methyl;
(5-fluoropyridin-2-yl)methyl;
(4-fluoropyridin-2-yl)methyl;
(3-fluoropyridin-2-yl)methyl;
2-hydroxycycloheptyl;
3-hydroxycycloheptyl;
4-hydroxycycloheptyl;
5-hydroxycycloheptyl;
cyclohexyl;
4-hydroxy-4-methylcyclohexyl;
(trans)-4-hydroxycyclohexyl;
(cis)-4-hydroxy-4-methylcyclohexyl;
(cis)-4-hydroxycyclohexyl;
(1s,4s)-4-hydroxy-4-methylcyclohexyl;

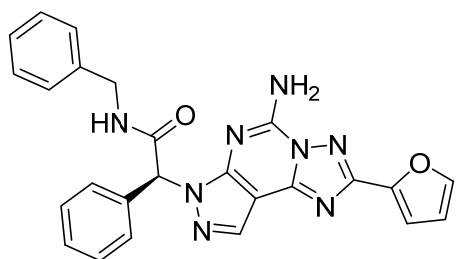
(1s,4s)-4-hydroxycyclohexyl;
 (1S,2R)-2-hydroxycyclohexyl;
 (1s,4s)-4-hydroxy-4-methylcyclohexyl;
 (1S,2S)-2-hydroxycyclohexyl;
 (1R,2S)-2-hydroxycyclohexyl;
 (trans)-4-hydroxy-4-methylcyclohexyl;
 3-hydroxycyclohexyl;
 (1R,3R)-3-hydroxycyclohexyl;
 (1S,3R)-3-hydroxycyclohexyl;
 (1R,3S)-3-hydroxycyclohexyl;
 (1S,3S)-3-hydroxycyclohexyl;
 4-oxocyclohexyl;
 cyclopentyl;
 2-hydroxycyclopentyl;
 3-hydroxycyclopentyl;
 (1S,2R)-2-hydroxycyclopentyl;
 (1S,2S)-2-hydroxycyclopentyl;
 (1R,2S)-2-hydroxycyclopentyl;
 (1R,3R)-3-hydroxycyclopentyl;
 (1S,3S)-3-hydroxycyclopentyl;
 (1S,3R)-3-hydroxycyclopentyl;
 (1R,3S)-3-hydroxycyclopentyl;
 (trans)-3-hydroxycyclobutyl;
 (cis)-3-hydroxycyclobutyl;
 (cis)-3-hydroxy-3-methylcyclobutyl;
 1-(hydroxymethyl)cyclopropyl;
 cyclopropyl;
 1,2,3,4-tetrahydronaphthalen-1-yl;
 2,3-dihydro-1H-inden-1-yl;
 tetrahydro-2H-pyran-4-yl;
 (S)-tetrahydro-2H-pyran-3-yl;
 (R)-tetrahydro-2H-pyran-3-yl;
 tetrahydro-2H-pyran-4-yl;
 (R)-chroman-4-yl;
 (S)-chroman-4-yl;
 2,3-dihydrobenzofuran-3-yl;

1-(4-(2-methoxyethoxy)phenyl)piperidin-4-yl;
 (R)-piperidin-3-yl(E652);
 (S)-piperidin-3-yl;
 4-hydroxypiperidin-1-yl;
 piperidin-4-yl;
 (S)-5-oxopyrrolidin-3-yl;
 (S)-2-oxopyrrolidin-3-yl;
 (R)-2-oxopyrrolidin-3-yl;
 4-oxocyclohexan-1-yl;
 (3S,4R)-4-hydroxytetrahydrofuran-3-yl;
 (3S,4S)-4-hydroxytetrahydrofuran-3-yl;
 (3S,4S)-4-hydroxytetrahydrofuran-3-yl; or
 (3R,4R)-4-hydroxytetrahydrofuran-3-yl.

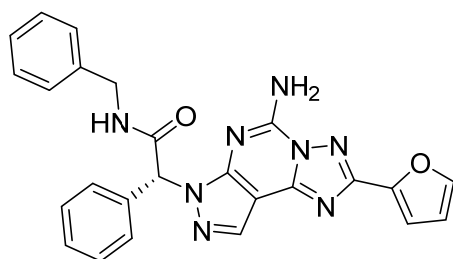
27. The compound of claim 1, which is selected from



;



;

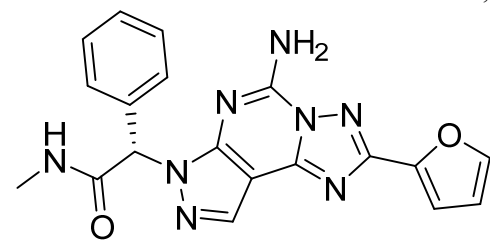
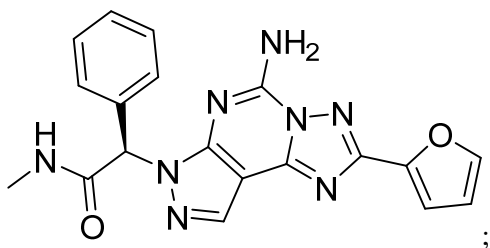


;

2-(5-amino-2-(furan-2-yl)-7H-pyrazolo[4,3-e][1,2,4]triazolo[1,5-c]pyrimidin-7-yl)-N-cyclohexyl-2-phenylacetamide;

2-(5-amino-2-(furan-2-yl)-7H-pyrazolo[4,3-e][1,2,4]triazolo[1,5-c]pyrimidin-7-yl)-N,2-diphenylacetamide;

2-(5-amino-2-(furan-2-yl)-7H-pyrazolo[4,3-e][1,2,4]triazolo[1,5-c]pyrimidin-7-yl)-N-methyl-2-phenylacetamide;



2-(5-amino-2-(furan-2-yl)-7H-pyrazolo[4,3-e][1,2,4]triazolo[1,5-c]pyrimidin-7-yl)-N-ethyl-2-phenylacetamide;

2-(5-amino-2-(furan-2-yl)-7H-pyrazolo[4,3-e][1,2,4]triazolo[1,5-c]pyrimidin-7-yl)-N-(2-methoxybenzyl)-2-phenylacetamide;

2-(5-amino-2-(furan-2-yl)-7H-pyrazolo[4,3-e][1,2,4]triazolo[1,5-c]pyrimidin-7-yl)-N-(2-fluorobenzyl)-2-phenylacetamide;

2-(5-amino-2-(furan-2-yl)-7H-pyrazolo[4,3-e][1,2,4]triazolo[1,5-c]pyrimidin-7-yl)-2-phenyl-N-(2-(trifluoromethoxy)benzyl)acetamide;

2-(5-amino-2-(furan-2-yl)-7H-pyrazolo[4,3-e][1,2,4]triazolo[1,5-c]pyrimidin-7-yl)-2-phenyl-N-((S)-1-phenylethyl)acetamide;

2-(5-amino-2-(furan-2-yl)-7H-pyrazolo[4,3-e][1,2,4]triazolo[1,5-c]pyrimidin-7-yl)-2-phenyl-N-((R)-1-phenylethyl)acetamide;

2-(5-amino-2-(furan-2-yl)-7H-pyrazolo[4,3-e][1,2,4]triazolo[1,5-c]pyrimidin-7-yl)-2-phenyl-N-(tetrahydro-2H-pyran-4-yl)acetamide;

2-(5-amino-2-(furan-2-yl)-7H-pyrazolo[4,3-e][1,2,4]triazolo[1,5-c]pyrimidin-7-yl)-N-cyclopentyl-2-phenylacetamide;

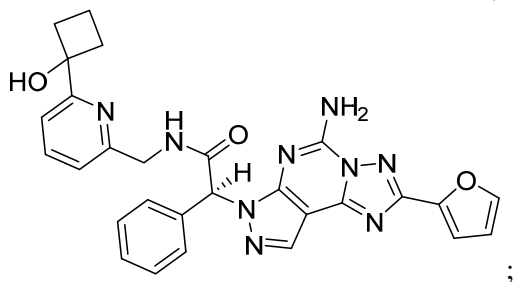
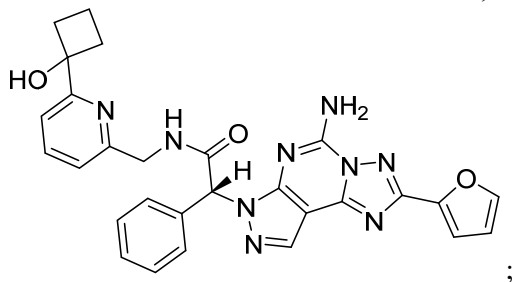
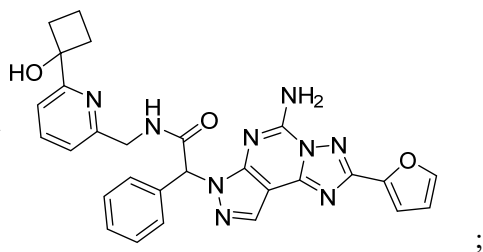
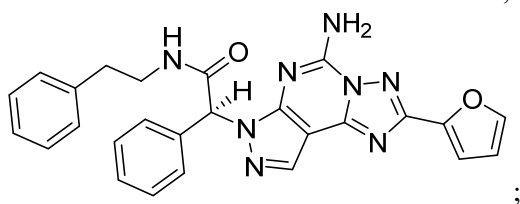
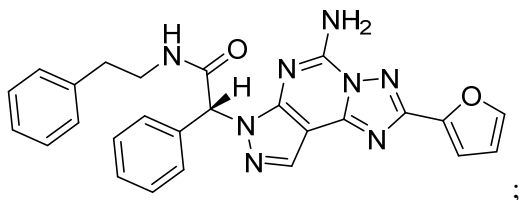
2-(5-amino-2-(furan-2-yl)-7H-pyrazolo[4,3-e][1,2,4]triazolo[1,5-c]pyrimidin-7-yl)-2-phenyl-N-(1,2,3,4-tetrahydronaphthalen-1-yl)acetamide;

2-(5-amino-2-(furan-2-yl)-7H-pyrazolo[4,3-e][1,2,4]triazolo[1,5-c]pyrimidin-7-yl)-N-(2,3-dihydro-1H-inden-1-yl)-2-phenylacetamide;

2-(5-amino-2-(furan-2-yl)-7H-pyrazolo[4,3-e][1,2,4]triazolo[1,5-c]pyrimidin-7-yl)-N-((R)-chroman-4-yl)-2-phenylacetamide;

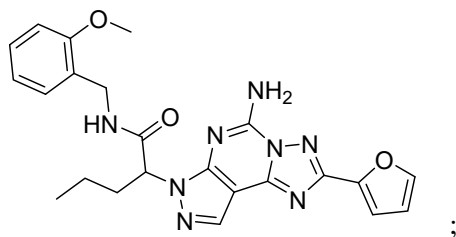
2-(5-amino-2-(furan-2-yl)-7H-pyrazolo[4,3-e][1,2,4]triazolo[1,5-c]pyrimidin-7-yl)-N-((S)-chroman-4-yl)-2-phenylacetamide;

2-(5-amino-2-(furan-2-yl)-7H-pyrazolo[4,3-e][1,2,4]triazolo[1,5-c]pyrimidin-7-yl)-N-phenethyl-2-phenylacetamide;



2-(5-amino-2-(furan-2-yl)-7H-pyrazolo[4,3-e][1,2,4]triazolo[1,5-c]pyrimidin-7-yl)-2-phenylacetamide;

2-(5-amino-2-(furan-2-yl)-7H-pyrazolo[4,3-e][1,2,4]triazolo[1,5-c]pyrimidin-7-yl)-N-(2,3-dihydrobenzofuran-3-yl)-2-phenylacetamide;



2-(5-amino-2-(furan-2-yl)-7H-pyrazolo[4,3-e][1,2,4]triazolo[1,5-c]pyrimidin-7-yl)-2-phenyl-N-(3-(trifluoromethyl)benzyl)acetamide;

2-(5-amino-2-(furan-2-yl)-7H-pyrazolo[4,3-e][1,2,4]triazolo[1,5-c]pyrimidin-7-yl)-N-(3-methylbenzyl)-2-phenylacetamide;

2-(5-amino-2-(furan-2-yl)-7H-pyrazolo[4,3-e][1,2,4]triazolo[1,5-c]pyrimidin-7-yl)-2-phenyl-N-(4-(trifluoromethoxy)benzyl)acetamide;

2-(5-amino-2-(furan-2-yl)-7H-pyrazolo[4,3-e][1,2,4]triazolo[1,5-c]pyrimidin-7-yl)-N-(4-methylbenzyl)-2-phenylacetamide;

2-(5-amino-2-(furan-2-yl)-7H-pyrazolo[4,3-e][1,2,4]triazolo[1,5-c]pyrimidin-7-yl)-N-(4-fluorobenzyl)-2-phenylacetamide;

2-(5-amino-2-(furan-2-yl)-7H-pyrazolo[4,3-e][1,2,4]triazolo[1,5-c]pyrimidin-7-yl)-N-(2-methoxybenzyl)-4-methylpentanamide;

2-(5-amino-2-(furan-2-yl)-7H-pyrazolo[4,3-e][1,2,4]triazolo[1,5-c]pyrimidin-7-yl)-N-(4-methoxybenzyl)-2-phenylacetamide;

2-(5-amino-2-(furan-2-yl)-7H-pyrazolo[4,3-e][1,2,4]triazolo[1,5-c]pyrimidin-7-yl)-2-phenyl-N-(4-(trifluoromethyl)benzyl)acetamide;

2-(5-amino-2-(furan-2-yl)-7H-pyrazolo[4,3-e][1,2,4]triazolo[1,5-c]pyrimidin-7-yl)-N-phenethyl-2-phenylpropanamide;

2-(5-amino-2-(furan-2-yl)-7H-pyrazolo[4,3-e][1,2,4]triazolo[1,5-c]pyrimidin-7-yl)-N-((3-hydroxyoxetan-3-yl)methyl)-2-phenylpropanamide;

(S)-2-(5-amino-2-(furan-2-yl)-7H-pyrazolo[4,3-e][1,2,4]triazolo[1,5-c]pyrimidin-7-yl)-N-((3-hydroxyoxetan-3-yl)methyl)-2-phenylpropanamide;

(R)-2-(5-amino-2-(furan-2-yl)-7H-pyrazolo[4,3-e][1,2,4]triazolo[1,5-c]pyrimidin-7-yl)-N-((3-hydroxyoxetan-3-yl)methyl)-2-phenylpropanamide;

2-(5-amino-2-(furan-2-yl)-7H-pyrazolo[4,3-e][1,2,4]triazolo[1,5-c]pyrimidin-7-yl)-N-methyl-2-phenylpropanamide;

2-(5-amino-2-(furan-2-yl)-7H-pyrazolo[4,3-e][1,2,4]triazolo[1,5-c]pyrimidin-7-yl)-(trans)-N-(4-hydroxy-4-methylcyclohexyl)-2-phenylpropanamide;

(S)-2-(5-amino-2-(furan-2-yl)-7H-pyrazolo[4,3-e][1,2,4]triazolo[1,5-c]pyrimidin-7-yl)-(trans)-N-(4-hydroxy-4-methylcyclohexyl)-2-phenylpropanamide;

(R)-2-(5-amino-2-(furan-2-yl)-7H-pyrazolo[4,3-e][1,2,4]triazolo[1,5-c]pyrimidin-7-yl)-(trans)-N-(4-hydroxy-4-methylcyclohexyl)-2-phenylpropanamide;

2-(5-amino-2-(furan-2-yl)-7H-pyrazolo[4,3-e][1,2,4]triazolo[1,5-c]pyrimidin-7-yl)-N,2-diphenylpropanamide;

2-(5-amino-2-(furan-2-yl)-7H-pyrazolo[4,3-e][1,2,4]triazolo[1,5-c]pyrimidin-7-yl)-N-benzyl-2-phenylpropanamide;

2-(5-amino-2-(furan-2-yl)-7H-pyrazolo[4,3-e][1,2,4]triazolo[1,5-c]pyrimidin-7-yl)-N-(3-hydroxycyclopentyl)-2-phenylpropanamide;

2-(5-amino-2-(furan-2-yl)-7H-pyrazolo[4,3-e][1,2,4]triazolo[1,5-c]pyrimidin-7-yl)-N-(1-(hydroxymethyl)cyclopropyl)-2-phenylpropanamide;

2-(5-amino-2-(furan-2-yl)-7H-pyrazolo[4,3-e][1,2,4]triazolo[1,5-c]pyrimidin-7-yl)-N-((R)-2-hydroxypropyl)-2-phenylpropanamide;

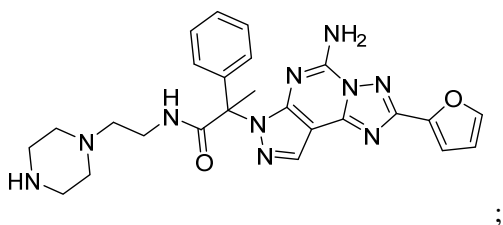
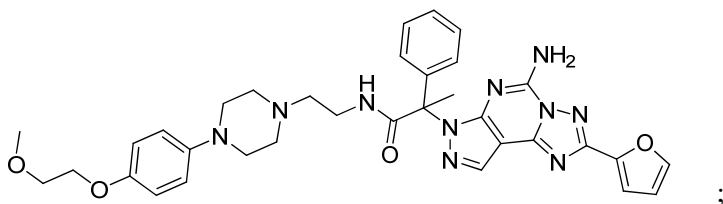
2-(5-amino-2-(furan-2-yl)-7H-pyrazolo[4,3-e][1,2,4]triazolo[1,5-c]pyrimidin-7-yl)-N-(2-methoxyethyl)-2-phenylpropanamide;

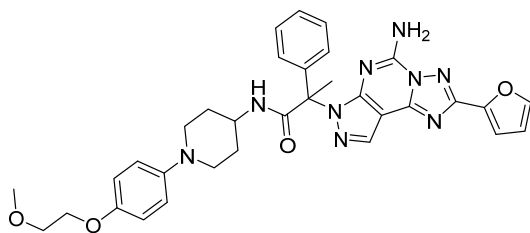
2-(5-amino-2-(furan-2-yl)-7H-pyrazolo[4,3-e][1,2,4]triazolo[1,5-c]pyrimidin-7-yl)-N-cyclopropyl-2-phenylpropanamide;

2-(5-amino-2-(furan-2-yl)-7H-pyrazolo[4,3-e][1,2,4]triazolo[1,5-c]pyrimidin-7-yl)-N-(2-morpholinoethyl)-2-phenylpropanamide;

2-(5-amino-2-(furan-2-yl)-7H-pyrazolo[4,3-e][1,2,4]triazolo[1,5-c]pyrimidin-7-yl)-N-(benzo[d][1,3]dioxol-5-ylmethyl)-2-phenylpropanamide;

2-(5-amino-2-(furan-2-yl)-7H-pyrazolo[4,3-e][1,2,4]triazolo[1,5-c]pyrimidin-7-yl)-N-cyclohexyl-2-phenylpropanamide;





2-(5-amino-2-(furan-2-yl)-7H-pyrazolo[4,3-e][1,2,4]triazolo[1,5-c]pyrimidin-7-yl)-N-((1S,2R)-2-hydroxycyclopentyl)-2-phenylpropanamide;

2-(5-amino-2-(furan-2-yl)-7H-pyrazolo[4,3-e][1,2,4]triazolo[1,5-c]pyrimidin-7-yl)-N-((1R,2S)-2-hydroxycyclopentyl)-2-phenylpropanamide;

(S)-2-(5-amino-2-(furan-2-yl)-7H-pyrazolo[4,3-e][1,2,4]triazolo[1,5-c]pyrimidin-7-yl)-N-((1R,2S)-2-hydroxycyclopentyl)-2-phenylpropanamide;

(R)-2-(5-amino-2-(furan-2-yl)-7H-pyrazolo[4,3-e][1,2,4]triazolo[1,5-c]pyrimidin-7-yl)-N-((1R,2S)-2-hydroxycyclopentyl)-2-phenylpropanamide;

2-(5-amino-2-(furan-2-yl)-7H-pyrazolo[4,3-e][1,2,4]triazolo[1,5-c]pyrimidin-7-yl)-2-phenyl-N-((tetrahydrofuran-2-yl)methyl)propenamide;

2-(5-amino-2-(furan-2-yl)-7H-pyrazolo[4,3-e][1,2,4]triazolo[1,5-c]pyrimidin-7-yl)-2-phenyl-N-(((R)-tetrahydrofuran-2-yl)methyl)propenamide;

2-(5-amino-2-(furan-2-yl)-7H-pyrazolo[4,3-e][1,2,4]triazolo[1,5-c]pyrimidin-7-yl)-2-phenyl-N-(((S)-tetrahydrofuran-2-yl)methyl)propenamide;

2-(5-amino-2-(furan-2-yl)-7H-pyrazolo[4,3-e][1,2,4]triazolo[1,5-c]pyrimidin-7-yl)-(trans)-N-(4-hydroxycyclohexyl)-2-phenylpropanamide;

(R)-2-(5-amino-2-(furan-2-yl)-7H-pyrazolo[4,3-e][1,2,4]triazolo[1,5-c]pyrimidin-7-yl)-N-((trans)-4-hydroxycyclohexyl)-2-phenylpropanamide;

2-(5-amino-2-(furan-2-yl)-7H-pyrazolo[4,3-e][1,2,4]triazolo[1,5-c]pyrimidin-7-yl)-2-phenyl-N-(((S)-tetrahydrofuran-3-yl)methyl)propenamide;

2-(5-amino-2-(furan-2-yl)-7H-pyrazolo[4,3-e][1,2,4]triazolo[1,5-c]pyrimidin-7-yl)-2-phenyl-N-(((R)-tetrahydrofuran-3-yl)methyl)propenamide;

2-(5-amino-2-(furan-2-yl)-7H-pyrazolo[4,3-e][1,2,4]triazolo[1,5-c]pyrimidin-7-yl)-N-(2-hydroxyethyl)-2-phenylpropanamide;

2-(5-amino-2-(furan-2-yl)-7H-pyrazolo[4,3-e][1,2,4]triazolo[1,5-c]pyrimidin-7-yl)-N-((1S,2R)-2-hydroxycyclohexyl)-2-phenylpropanamide;

2-(5-amino-2-(furan-2-yl)-7H-pyrazolo[4,3-e][1,2,4]triazolo[1,5-c]pyrimidin-7-yl)-N-((1S,2S)-2-hydroxycyclohexyl)-2-phenylpropanamide;

2-(5-amino-2-(furan-2-yl)-7H-pyrazolo[4,3-e][1,2,4]triazolo[1,5-c]pyrimidin-7-yl)-N-((1R,2S)-2-hydroxycyclohexyl)-2-phenylpropanamide;

2-(5-amino-2-(furan-2-yl)-7H-pyrazolo[4,3-e][1,2,4]triazolo[1,5-c]pyrimidin-7-yl)-N-((1S,2R)-2-hydroxycyclohexyl)-2-phenylpropanamide;

(R)-2-(5-amino-2-(furan-2-yl)-7H-pyrazolo[4,3-e][1,2,4]triazolo[1,5-c]pyrimidin-7-yl)-N-((1R,2S)-2-hydroxycyclohexyl)-2-phenylpropanamide;

2-(5-amino-2-(furan-2-yl)-7H-pyrazolo[4,3-e][1,2,4]triazolo[1,5-c]pyrimidin-7-yl)-2-phenyl-N-((S)-tetrahydro-2H-pyran-3-yl)propenamide;

2-(5-amino-2-(furan-2-yl)-7H-pyrazolo[4,3-e][1,2,4]triazolo[1,5-c]pyrimidin-7-yl)-2-phenyl-N-((R)-tetrahydro-2H-pyran-3-yl)propenamide;

2-(5-amino-2-(furan-2-yl)-7H-pyrazolo[4,3-e][1,2,4]triazolo[1,5-c]pyrimidin-7-yl)-2-phenyl-N-((tetrahydro-2H-pyran-3-yl)methyl)propenamide;

2-(5-amino-2-(furan-2-yl)-7H-pyrazolo[4,3-e][1,2,4]triazolo[1,5-c]pyrimidin-7-yl)-N-(2-(dimethylamino)ethyl)-2-phenylpropanamide;

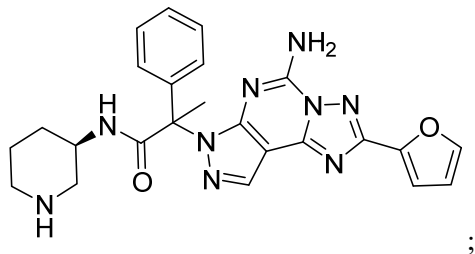
2-(5-amino-2-(furan-2-yl)-7H-pyrazolo[4,3-e][1,2,4]triazolo[1,5-c]pyrimidin-7-yl)-N-((3-hydroxyoxetan-3-yl)methyl)-2-(o-tolyl)propenamide;

2-(5-amino-2-(furan-2-yl)-7H-pyrazolo[4,3-e][1,2,4]triazolo[1,5-c]pyrimidin-7-yl)-2-phenyl-N-(pyridin-3-yl)propenamide;

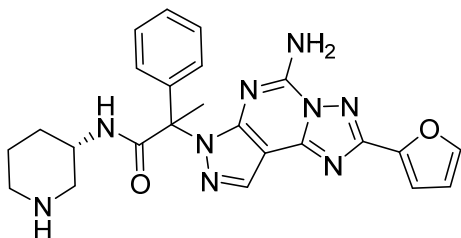
2-(5-amino-2-(furan-2-yl)-7H-pyrazolo[4,3-e][1,2,4]triazolo[1,5-c]pyrimidin-7-yl)-2-phenyl-N-(pyridin-4-yl)propenamide;

2-(5-amino-2-(furan-2-yl)-7H-pyrazolo[4,3-e][1,2,4]triazolo[1,5-c]pyrimidin-7-yl)-2-phenyl-N-(pyridin-2-ylmethyl)propenamide;

(R)-2-(5-amino-2-(furan-2-yl)-7H-pyrazolo[4,3-e][1,2,4]triazolo[1,5-c]pyrimidin-7-yl)-2-phenyl-N-(pyridin-2-ylmethyl)propenamide;



;



;

2-(5-amino-2-(furan-2-yl)-7H-pyrazolo[4,3-e][1,2,4]triazolo[1,5-c]pyrimidin-7-yl)-(cis)-N-(4-hydroxy-4-methylcyclohexyl)-2-phenylpropanamide;

(S)-2-(5-amino-2-(furan-2-yl)-7H-pyrazolo[4,3-e][1,2,4]triazolo[1,5-c]pyrimidin-7-yl)-(cis)-N-(4-hydroxy-4-methylcyclohexyl)-2-phenylpropanamide;

(R)-2-(5-amino-2-(furan-2-yl)-7H-pyrazolo[4,3-e][1,2,4]triazolo[1,5-c]pyrimidin-7-yl)-(cis)-N-(4-hydroxy-4-methylcyclohexyl)-2-phenylpropanamide;

2-(5-amino-2-(furan-2-yl)-7H-pyrazolo[4,3-e][1,2,4]triazolo[1,5-c]pyrimidin-7-yl)-N-((3-hydroxyoxetan-3-yl)methyl)-2-(2-methoxyphenyl)propanamide;

2-(5-amino-2-(furan-2-yl)-7H-pyrazolo[4,3-e][1,2,4]triazolo[1,5-c]pyrimidin-7-yl)-N-((1-hydroxycyclobutyl)methyl)-2-phenylpropanamide;

2-(5-amino-2-(furan-2-yl)-7H-pyrazolo[4,3-e][1,2,4]triazolo[1,5-c]pyrimidin-7-yl)-N-((1-hydroxycyclohexyl)methyl)-2-phenylpropanamide;

2-(5-amino-2-(furan-2-yl)-7H-pyrazolo[4,3-e][1,2,4]triazolo[1,5-c]pyrimidin-7-yl)-2-phenyl-N-(2-(tetrahydro-2H-pyran-4-yl)ethyl)propanamide;

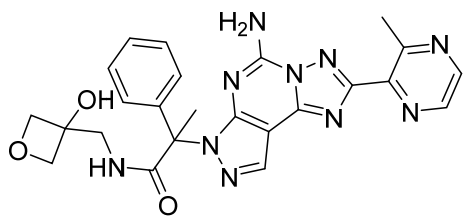
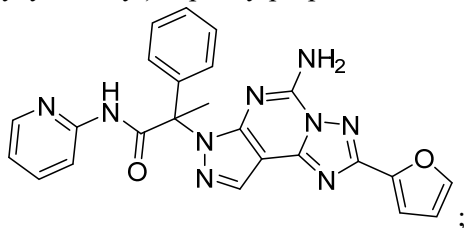
2-(5-amino-2-(furan-2-yl)-7H-pyrazolo[4,3-e][1,2,4]triazolo[1,5-c]pyrimidin-7-yl)-2-phenyl-N-(2-(tetrahydrofuran-3-yl)ethyl)propanamide;

2-(5-amino-2-(furan-2-yl)-7H-pyrazolo[4,3-e][1,2,4]triazolo[1,5-c]pyrimidin-7-yl)-N-(2-(2-methoxyethoxy)ethyl)-2-phenylpropanamide;

2-(5-amino-2-(furan-2-yl)-7H-pyrazolo[4,3-e][1,2,4]triazolo[1,5-c]pyrimidin-7-yl)-(cis)-N-(4-hydroxycyclohexyl)-2-phenylpropanamide;

(S)-2-(5-amino-2-(furan-2-yl)-7H-pyrazolo[4,3-e][1,2,4]triazolo[1,5-c]pyrimidin-7-yl)-(cis)-N-(4-hydroxycyclohexyl)-2-phenylpropanamide;

(R)-2-(5-amino-2-(furan-2-yl)-7H-pyrazolo[4,3-e][1,2,4]triazolo[1,5-c]pyrimidin-7-yl)-(cis)-N-(4-hydroxycyclohexyl)-2-phenylpropanamide;

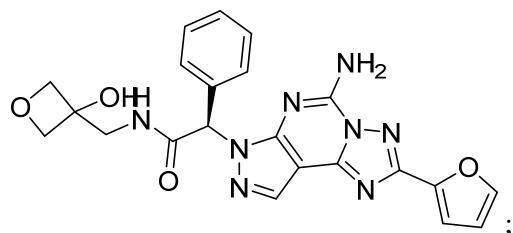
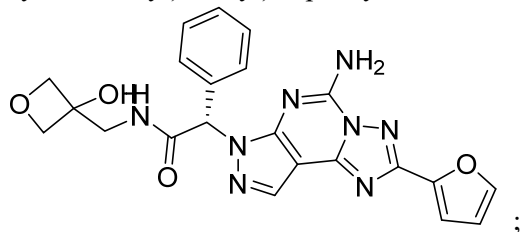


2-(5-amino-2-(furan-2-yl)-7H-pyrazolo[4,3-e][1,2,4]triazolo[1,5-c]pyrimidin-7-yl)-N-(oxetan-3-ylmethyl)-2-phenylpropanamide;

2-(5-amino-2-(furan-2-yl)-7H-pyrazolo[4,3-e][1,2,4]triazolo[1,5-c]pyrimidin-7-yl)-N-((4-hydroxytetrahydro-2H-pyran-4-yl)methyl)-2-phenylpropanamide;

2-(5-amino-2-(furan-2-yl)-7H-pyrazolo[4,3-e][1,2,4]triazolo[1,5-c]pyrimidin-7-yl)-N-(2-(methylamino)ethyl)-2-phenylpropanamide;

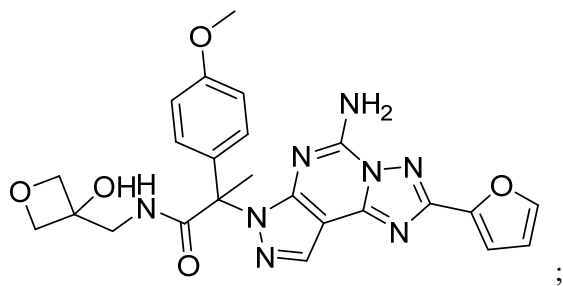
2-(5-amino-2-(furan-2-yl)-7H-pyrazolo[4,3-e][1,2,4]triazolo[1,5-c]pyrimidin-7-yl)-N-((3-hydroxyoxetan-3-yl)methyl)-2-phenylacetamide;



2-(5-amino-2-(furan-2-yl)-7H-pyrazolo[4,3-e][1,2,4]triazolo[1,5-c]pyrimidin-7-yl)-2-phenyl-N-(pyridin-4-ylmethyl)propanamide;

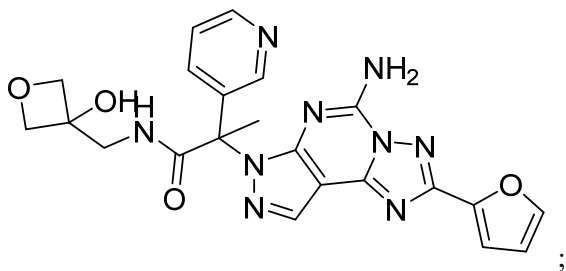
2-(5-amino-2-(furan-2-yl)-7H-pyrazolo[4,3-e][1,2,4]triazolo[1,5-c]pyrimidin-7-yl)-2-phenyl-N-(pyridin-3-ylmethyl)propanamide;

2-(5-amino-2-(furan-2-yl)-7H-pyrazolo[4,3-e][1,2,4]triazolo[1,5-c]pyrimidin-7-yl)-N-((3-hydroxyoxetan-3-yl)methyl)-2-(m-tolyl)propanamide;



2-(5-amino-2-(furan-2-yl)-7H-pyrazolo[4,3-e][1,2,4]triazolo[1,5-c]pyrimidin-7-yl)-2-(2-fluorophenyl)-N-((3-hydroxyoxetan-3-yl)methyl)propanamide;

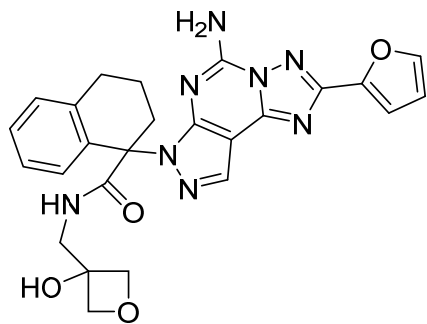
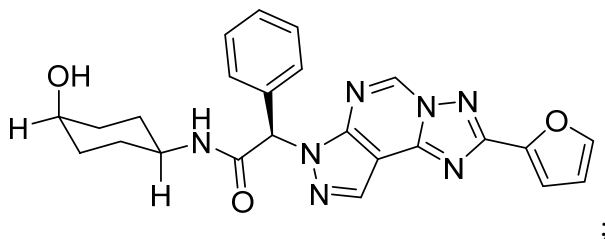
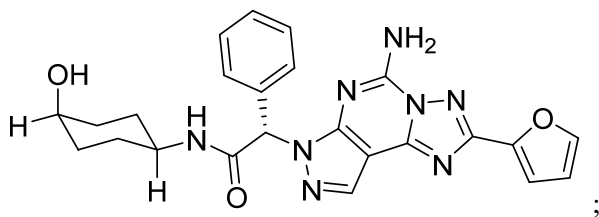
2-(5-amino-2-(furan-2-yl)-7H-pyrazolo[4,3-e][1,2,4]triazolo[1,5-c]pyrimidin-7-yl)-N-((1-hydroxycyclopropyl)methyl)-2-phenylpropanamide;



2-(5-amino-2-(furan-2-yl)-7H-pyrazolo[4,3-e][1,2,4]triazolo[1,5-c]pyrimidin-7-yl)-N-((1R,2S)-2-hydroxycyclopentyl)-2-phenylacetamide;

2-(5-amino-2-(furan-2-yl)-7H-pyrazolo[4,3-e][1,2,4]triazolo[1,5-c]pyrimidin-7-yl)-N-((1S,2R)-2-hydroxycyclohexyl)-2-phenylacetamide;

2-(5-amino-2-(furan-2-yl)-7H-pyrazolo[4,3-e][1,2,4]triazolo[1,5-c]pyrimidin-7-yl)-(cis)-N-(4-hydroxycyclohexyl)-2-phenylacetamide;



2-(5-amino-2-(furan-2-yl)-7H-pyrazolo[4,3-e][1,2,4]triazolo[1,5-c]pyrimidin-7-yl)-N-((1R,3R)-3-hydroxycyclopentyl)-2-phenylpropanamide;

2-(5-amino-2-(furan-2-yl)-7H-pyrazolo[4,3-e][1,2,4]triazolo[1,5-c]pyrimidin-7-yl)-N-((1S,3S)-3-hydroxycyclopentyl)-2-phenylpropanamide;

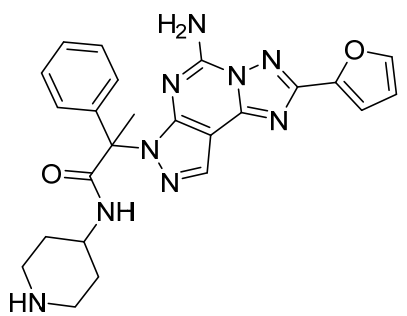
2-(5-amino-2-(furan-2-yl)-7H-pyrazolo[4,3-e][1,2,4]triazolo[1,5-c]pyrimidin-7-yl)-(cis)-N-(4-hydroxy-4-methylcyclohexyl)-2-phenylacetamide;

2-(5-amino-2-(furan-2-yl)-7H-pyrazolo[4,3-e][1,2,4]triazolo[1,5-c]pyrimidin-7-yl)-2-phenyl-N-((tetrahydro-2H-pyran-4-yl)methyl)propanamide;

2-(5-amino-2-(furan-2-yl)-7H-pyrazolo[4,3-e][1,2,4]triazolo[1,5-c]pyrimidin-7-yl)-2-phenyl-N-(tetrahydro-2H-pyran-4-yl)propanamide;

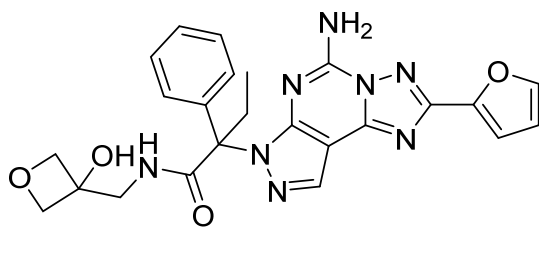
2-(5-amino-2-(furan-2-yl)-7H-pyrazolo[4,3-e][1,2,4]triazolo[1,5-c]pyrimidin-7-yl)-N-(3-hydroxycyclohexyl)-2-phenylpropanamide;

2-(5-amino-2-(furan-2-yl)-7H-pyrazolo[4,3-e][1,2,4]triazolo[1,5-c]pyrimidin-7-yl)-N-((S)-5-oxopyrrolidin-3-yl)-2-phenylpropanamide;



2-(5-amino-2-(furan-2-yl)-7H-pyrazolo[4,3-e][1,2,4]triazolo[1,5-c]pyrimidin-7-yl)-(trans)-N-(3-hydroxycyclobutyl)-2-phenylpropanamide;

(R)-2-(5-amino-2-(furan-2-yl)-7H-pyrazolo[4,3-e][1,2,4]triazolo[1,5-c]pyrimidin-7-yl)-(trans)-N-(3-hydroxycyclobutyl)-2-phenylpropanamide;



2-(5-amino-2-(furan-2-yl)-7H-pyrazolo[4,3-e][1,2,4]triazolo[1,5-c]pyrimidin-7-yl)-N-((1s,3s)-3-hydroxycyclobutyl)-2-phenylpropanamide;

(R)-2-(5-amino-2-(furan-2-yl)-7H-pyrazolo[4,3-e][1,2,4]triazolo[1,5-c]pyrimidin-7-yl)-(cis)-N-(3-hydroxycyclobutyl)-2-phenylpropanamide;

2-(5-amino-2-(furan-2-yl)-7H-pyrazolo[4,3-e][1,2,4]triazolo[1,5-c]pyrimidin-7-yl)-N-((1S,3S)-3-hydroxy-3-methylcyclobutyl)-2-phenylpropanamide;

(R)-2-(5-amino-2-(furan-2-yl)-7H-pyrazolo[4,3-e][1,2,4]triazolo[1,5-c]pyrimidin-7-yl)-(cis)-N-(3-hydroxy-3-methylcyclobutyl)-2-phenylpropanamide;

2-(5-amino-2-(furan-2-yl)-7H-pyrazolo[4,3-e][1,2,4]triazolo[1,5-c]pyrimidin-7-yl)-N-((3S,4R)-4-hydroxytetrahydrofuran-3-yl)-2-phenylpropanamide;

(R)-2-(5-amino-2-(furan-2-yl)-7H-pyrazolo[4,3-e][1,2,4]triazolo[1,5-c]pyrimidin-7-yl)-N-((3S,4R)-4-hydroxytetrahydrofuran-3-yl)-2-phenylpropanamide;

2-(5-amino-2-(furan-2-yl)-7H-pyrazolo[4,3-e][1,2,4]triazolo[1,5-c]pyrimidin-7-yl)-N-((3S,4S)-4-hydroxytetrahydrofuran-3-yl)-2-phenylpropanamide;

(R)-2-(5-amino-2-(furan-2-yl)-7H-pyrazolo[4,3-e][1,2,4]triazolo[1,5-c]pyrimidin-7-yl)-N-((3S,4S)-4-hydroxytetrahydrofuran-3-yl)-2-phenylpropanamide;

2-(5-amino-2-(furan-2-yl)-7H-pyrazolo[4,3-e][1,2,4]triazolo[1,5-c]pyrimidin-7-yl)-N-((6-methylpyridin-2-yl)methyl)-2-phenylpropanamide;

(R)-2-(5-amino-2-(furan-2-yl)-7H-pyrazolo[4,3-e][1,2,4]triazolo[1,5-c]pyrimidin-7-yl)-N-((6-methylpyridin-2-yl)methyl)-2-phenylpropanamide;

2-(5-amino-2-(furan-2-yl)-7H-pyrazolo[4,3-e][1,2,4]triazolo[1,5-c]pyrimidin-7-yl)-N-((5-methylpyridin-2-yl)methyl)-2-phenylpropanamide;

(R)-2-(5-amino-2-(furan-2-yl)-7H-pyrazolo[4,3-e][1,2,4]triazolo[1,5-c]pyrimidin-7-yl)-N-((5-methylpyridin-2-yl)methyl)-2-phenylpropanamide;

2-(5-amino-2-(furan-2-yl)-7H-pyrazolo[4,3-e][1,2,4]triazolo[1,5-c]pyrimidin-7-yl)-N-((4-methylpyridin-2-yl)methyl)-2-phenylpropanamide;

(R)-2-(5-amino-2-(furan-2-yl)-7H-pyrazolo[4,3-e][1,2,4]triazolo[1,5-c]pyrimidin-7-yl)-N-((4-methylpyridin-2-yl)methyl)-2-phenylpropanamide;

2-(5-amino-2-(furan-2-yl)-7H-pyrazolo[4,3-e][1,2,4]triazolo[1,5-c]pyrimidin-7-yl)-N-((3-methylpyridin-2-yl)methyl)-2-phenylpropanamide;

(R)-2-(5-amino-2-(furan-2-yl)-7H-pyrazolo[4,3-e][1,2,4]triazolo[1,5-c]pyrimidin-7-yl)-N-((3-methylpyridin-2-yl)methyl)-2-phenylpropanamide;

2-(5-amino-2-(furan-2-yl)-7H-pyrazolo[4,3-e][1,2,4]triazolo[1,5-c]pyrimidin-7-yl)-N-((6-methoxypyridin-2-yl)methyl)-2-phenylpropanamide;

(R)-2-(5-amino-2-(furan-2-yl)-7H-pyrazolo[4,3-e][1,2,4]triazolo[1,5-c]pyrimidin-7-yl)-N-((6-methoxypyridin-2-yl)methyl)-2-phenylpropanamide;

(R)-2-(5-amino-2-(furan-2-yl)-7H-pyrazolo[4,3-e][1,2,4]triazolo[1,5-c]pyrimidin-7-yl)-N-((5-methoxypyridin-2-yl)methyl)-2-phenylpropanamide;

2-(5-amino-2-(furan-2-yl)-7H-pyrazolo[4,3-e][1,2,4]triazolo[1,5-c]pyrimidin-7-yl)-N-((4-methoxypyridin-2-yl)methyl)-2-phenylpropanamide;

(R)-2-(5-amino-2-(furan-2-yl)-7H-pyrazolo[4,3-e][1,2,4]triazolo[1,5-c]pyrimidin-7-yl)-N-((4-methoxypyridin-2-yl)methyl)-2-phenylpropanamide;

2-(5-amino-2-(furan-2-yl)-7H-pyrazolo[4,3-e][1,2,4]triazolo[1,5-c]pyrimidin-7-yl)-N-((3-methoxypyridin-2-yl)methyl)-2-phenylpropanamide;

(R)-2-(5-amino-2-(furan-2-yl)-7H-pyrazolo[4,3-e][1,2,4]triazolo[1,5-c]pyrimidin-7-yl)-N-((3-methoxypyridin-2-yl)methyl)-2-phenylpropanamide;

2-(5-amino-2-(furan-2-yl)-7H-pyrazolo[4,3-e][1,2,4]triazolo[1,5-c]pyrimidin-7-yl)-N-((6-fluoropyridin-2-yl)methyl)-2-phenylpropanamide;

2-(5-amino-2-(furan-2-yl)-7H-pyrazolo[4,3-e][1,2,4]triazolo[1,5-c]pyrimidin-7-yl)-N-((5-fluoropyridin-2-yl)methyl)-2-phenylpropanamide;

(R)-2-(5-amino-2-(furan-2-yl)-7H-pyrazolo[4,3-e][1,2,4]triazolo[1,5-c]pyrimidin-7-yl)-N-((5-fluoropyridin-2-yl)methyl)-2-phenylpropanamide;

2-(5-amino-2-(furan-2-yl)-7H-pyrazolo[4,3-e][1,2,4]triazolo[1,5-c]pyrimidin-7-yl)-N-((4-fluoropyridin-2-yl)methyl)-2-phenylpropanamide;

(R)-2-(5-amino-2-(furan-2-yl)-7H-pyrazolo[4,3-e][1,2,4]triazolo[1,5-c]pyrimidin-7-yl)-N-((4-fluoropyridin-2-yl)methyl)-2-phenylpropanamide;

2-(5-amino-2-(furan-2-yl)-7H-pyrazolo[4,3-e][1,2,4]triazolo[1,5-c]pyrimidin-7-yl)-N-((3-fluoropyridin-2-yl)methyl)-2-phenylpropanamide;

(R)-2-(5-amino-2-(furan-2-yl)-7H-pyrazolo[4,3-e][1,2,4]triazolo[1,5-c]pyrimidin-7-yl)-N-((3-fluoropyridin-2-yl)methyl)-2-phenylpropanamide;

2-(5-amino-2-(furan-2-yl)-7H-pyrazolo[4,3-e][1,2,4]triazolo[1,5-c]pyrimidin-7-yl)-N-((1S,3R)-3-hydroxycyclohexyl)-2-phenylpropanamide;

2-(5-amino-2-(furan-2-yl)-7H-pyrazolo[4,3-e][1,2,4]triazolo[1,5-c]pyrimidin-7-yl)-N-(4-oxocyclohexyl)-2-phenylpropanamide;

(R)-2-(5-amino-2-(furan-2-yl)-7H-pyrazolo[4,3-e][1,2,4]triazolo[1,5-c]pyrimidin-7-yl)-N-(4-oxocyclohexyl)-2-phenylpropanamide;

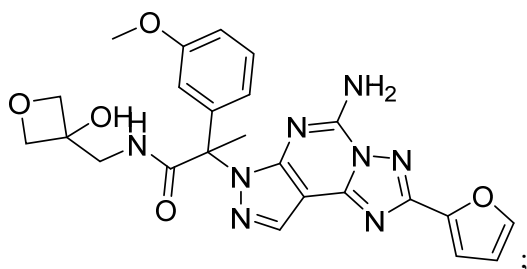
2-(5-amino-2-(furan-2-yl)-7H-pyrazolo[4,3-e][1,2,4]triazolo[1,5-c]pyrimidin-7-yl)-N-((6-(1-hydroxycyclobutyl)pyridin-2-yl)methyl)-2-phenylpropanamide;

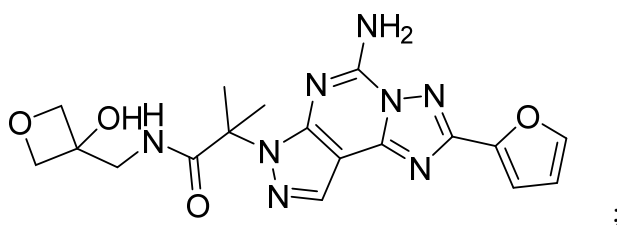
2-(5-amino-2-(furan-2-yl)-7H-pyrazolo[4,3-e][1,2,4]triazolo[1,5-c]pyrimidin-7-yl)-N-((3-hydroxyoxetan-3-yl)methyl)-2-methyl-3-phenylpropanamide;

2-(5-amino-2-(thiazol-2-yl)-7H-pyrazolo[4,3-e][1,2,4]triazolo[1,5-c]pyrimidin-7-yl)-N-((3-hydroxyoxetan-3-yl)methyl)-2-phenylpropanamide;

2-(5-amino-2-(furan-2-yl)-7H-pyrazolo[4,3-e][1,2,4]triazolo[1,5-c]pyrimidin-7-yl)-N-((1R,3S)-3-hydroxycyclopentyl)-2-phenylpropanamide;

2-(5-amino-2-(furan-2-yl)-7H-pyrazolo[4,3-e][1,2,4]triazolo[1,5-c]pyrimidin-7-yl)-N-((1S,3R)-3-hydroxycyclopentyl)-2-phenylpropanamide;





2-(5-amino-2-(furan-2-yl)-7H-pyrazolo[4,3-e][1,2,4]triazolo[1,5-c]pyrimidin-7-yl)-N-((*cis*)-4-hydroxycyclohexyl)-2-(2-methoxyphenyl)propenamide;

2-(5-amino-2-(furan-2-yl)-7H-pyrazolo[4,3-e][1,2,4]triazolo[1,5-c]pyrimidin-7-yl)-N-((*cis*)-4-hydroxy-4-methylcyclohexyl)-2-(2-methoxyphenyl)propenamide;

(R)-2-(5-amino-2-(furan-2-yl)-7H-pyrazolo[4,3-e][1,2,4]triazolo[1,5-c]pyrimidin-7-yl)-2-phenyl-N-((3-(trifluoromethyl)pyridin-2-yl)methyl)propenamide;

(R)-2-(5-amino-2-(furan-2-yl)-7H-pyrazolo[4,3-e][1,2,4]triazolo[1,5-c]pyrimidin-7-yl)-2-phenyl-N-((3-(trifluoromethyl)pyridin-2-yl)methyl)propenamide;

(R)-2-(5-amino-2-(furan-2-yl)-7H-pyrazolo[4,3-e][1,2,4]triazolo[1,5-c]pyrimidin-7-yl)-2-phenyl-N-((4-(trifluoromethyl)pyridin-2-yl)methyl)propenamide;

(R)-2-(5-amino-2-(furan-2-yl)-7H-pyrazolo[4,3-e][1,2,4]triazolo[1,5-c]pyrimidin-7-yl)-2-phenyl-N-((6-(trifluoromethyl)pyridin-2-yl)methyl)propenamide;

(R)-2-(5-amino-2-(furan-2-yl)-7H-pyrazolo[4,3-e][1,2,4]triazolo[1,5-c]pyrimidin-7-yl)-2-phenyl-N-(tetrahydro-2H-thiopyran-4-yl)propenamide;

(R)-2-(5-amino-2-(furan-2-yl)-7H-pyrazolo[4,3-e][1,2,4]triazolo[1,5-c]pyrimidin-7-yl)-N-((1*S*,4*s*)-1-oxidotetrahydro-2H-thiopyran-4-yl)-2-phenylpropanamide;

(R)-2-(5-amino-2-(furan-2-yl)-7H-pyrazolo[4,3-e][1,2,4]triazolo[1,5-c]pyrimidin-7-yl)-N-((1*R*,4*r*)-1-oxidotetrahydro-2H-thiopyran-4-yl)-2-phenylpropanamide;

(R)-2-(5-amino-2-(furan-2-yl)-7H-pyrazolo[4,3-e][1,2,4]triazolo[1,5-c]pyrimidin-7-yl)-N-((1*R*,4*r*)-1-oxidotetrahydro-2H-thiopyran-4-yl)-2-phenylpropanamide;

(R)-2-(5-amino-2-(furan-2-yl)-7H-pyrazolo[4,3-e][1,2,4]triazolo[1,5-c]pyrimidin-7-yl)-N-(2-(4-methylpiperazin-1-yl)ethyl)-2-phenylpropanamide;

(R)-2-(5-amino-2-(furan-2-yl)-7H-pyrazolo[4,3-e][1,2,4]triazolo[1,5-c]pyrimidin-7-yl)-N-(2-(4-hydroxypiperidin-1-yl)ethyl)-2-phenylpropanamide;

(R)-2-(5-amino-2-(furan-2-yl)-7H-pyrazolo[4,3-e][1,2,4]triazolo[1,5-c]pyrimidin-7-yl)-N-(2-(4-hydroxycyclohexyl)ethyl)-2-phenylpropanamide;

(R)-2-(5-amino-2-(furan-2-yl)-7H-pyrazolo[4,3-e][1,2,4]triazolo[1,5-c]pyrimidin-7-yl)-N-(2-(6-methylpyridin-2-yl)ethyl)-2-phenylpropanamide; or

(*cis*)-4-((R)-2-(5-amino-2-(furan-2-yl)-7H-pyrazolo[4,3-e][1,2,4]triazolo[1,5-c]pyrimidin-7-yl)-2-phenylpropanamido)cyclohexyl acetate;

or a pharmaceutically acceptable salt thereof.

28. A pharmaceutical composition comprising the compound of claim 1 or a stereoisomer thereof, or a pharmaceutically acceptable salt thereof and a pharmaceutically acceptable excipient.