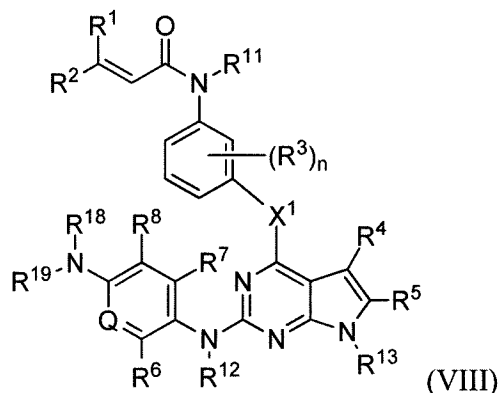


CLAIMS

1. A compound of Formula (VIII):



wherein

X^1 is O, NH, S, CH_2 , or CF_2 ;

R^1 and R^2 are independently selected from hydrogen, halo, C_{1-6} alkyl, and C_{1-6} haloalkyl;

R^3 is selected from ~~halo~~, hydroxyl, C_{1-6} alkyl, C_{1-6} alkoxy, cyano, and nitro;

n is a number from zero to 4;

R^4 is selected from hydrogen, C_{1-6} alkyl, C_{3-7} cycloalkyl, and $-NR^{22}R^{23}$;

wherein the alkyl or cycloalkyl is unsubstituted or substituted with hydroxyl or amino; and

~~wherein~~ each R^{22} and R^{23} are independently selected from hydrogen and C_{1-6} alkyl or R^{22} and R^{23} may be joined to form a 3 to 10 membered ring;

R^5 is selected from hydrogen and C_{1-6} alkyl;

R^6 is selected from hydrogen, halo, C_{1-6} alkyl, C_{1-6} haloalkyl, C_{1-6} alkoxy, C_{1-6} haloalkoxy, hydroxyl, cyano, and nitro;

R^7 is selected from hydrogen, halo, C_{1-6} alkyl, C_{1-6} haloalkyl, C_{1-6} alkoxy, C_{1-6} haloalkoxy, hydroxyl, cyano, and nitro;

R^8 is selected from hydrogen, halo, C_{1-6} alkyl, C_{1-6} haloalkyl, C_{1-6} alkoxy, C_{1-6} haloalkoxy, hydroxyl, cyano, and nitro;

Q is CR^9 or N;

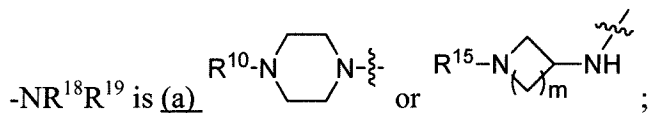
where R^9 is selected from hydrogen, halo, C_{1-6} alkyl, C_{1-6} haloalkyl, C_{1-6} alkoxy, C_{1-6} haloalkoxy, hydroxyl, cyano, and nitro;

R^{11} is selected from hydrogen and C_{1-6} alkyl;

R^{12} is selected from hydrogen and C_{1-6} alkyl;

R^{13} is selected from hydrogen, C_{1-6} alkyl, C_{1-6} acyl, SO_2-C_{1-6} alkyl, C_{3-7} cycloalkyl, and C_{6-20} aryl,

wherein each alkyl or aryl is unsubstituted or substituted with hydroxyl, C_{1-6} alkoxy, or halo; and



wherein R^{10} is selected from hydrogen and C_{1-6} alkyl;

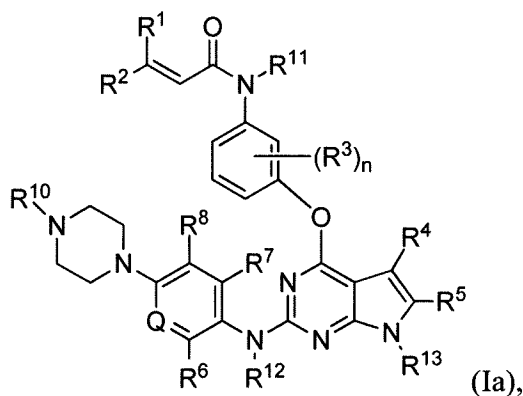
R^{15} is unsubstituted methyl, or is C_{2-4} alkyl unsubstituted or substituted with hydroxy, methoxy, or halo; and

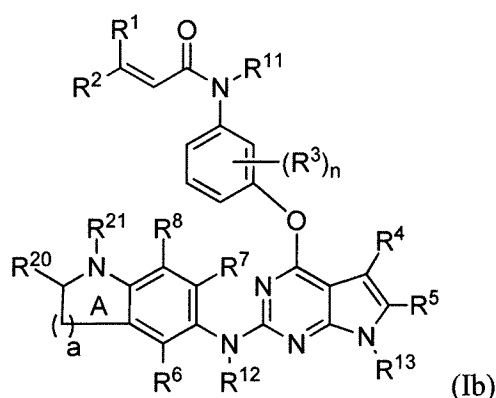
m is 1 or 2; or is

(b) where R^{19} and R^9 taken together form a 5- or 6-membered heteroaryl ring optionally substituted with C_{1-6} alkyl that is unsubstituted or substituted with amino, hydroxyl, or halo; and R^{18} is hydrogen or C_{1-6} alkyl, or is absent to satisfy valency of the heteroaryl ring;

provided that neither of R^6 or R^7 is methoxy when $-NR^{18}R^{19}$ is $R^{10}-N \begin{array}{c} \diagup \quad \diagdown \\ \text{---} \quad \text{---} \end{array} N-\xi$;
or a pharmaceutically acceptable salt thereof.

2. ~~The compound of claim 1, wherein the compound is a compound~~ A compound of Formula (Ia) or (Ib):





wherein

R^1 and R^2 are independently selected from hydrogen, halo, C_{1-6} alkyl, and C_{1-6} haloalkyl;

R^3 is selected from ~~halo~~, hydroxyl, C_{1-6} alkyl, C_{1-6} alkoxy, cyano, and nitro;

n is a number from zero to 4;

R^4 is selected from hydrogen, C_{1-6} alkyl, C_{3-7} cycloalkyl, and $-NR^{22}R^{23}$;

wherein the alkyl or cycloalkyl is unsubstituted or substituted with hydroxyl or amino; and

~~wherein~~ each R^{22} and R^{23} are independently selected from hydrogen and C_{1-6} alkyl or R^{22} and R^{23} may be joined to form a 3 to 10 membered ring;

R^5 is selected from hydrogen and C_{1-6} alkyl;

R^6 is selected from hydrogen, halo, C_{1-6} alkyl, C_{1-6} haloalkyl, C_{2-6} alkoxy, C_{1-6} haloalkoxy, hydroxyl, cyano, and nitro;

R^7 is selected from hydrogen, halo, C_{1-6} alkyl, C_{1-6} haloalkyl, C_{2-6} alkoxy, C_{1-6} haloalkoxy, hydroxyl, cyano, and nitro;

R^8 is selected from hydrogen, halo, C_{1-6} alkyl, C_{1-6} haloalkyl, C_{1-6} alkoxy, C_{1-6} haloalkoxy, hydroxyl, cyano, and nitro;

Q is CR^9 or N ;

where R^9 is selected from hydrogen, halo, C_{1-6} alkyl, C_{1-6} haloalkyl, C_{1-6} alkoxy, C_{1-6} haloalkoxy, hydroxyl, cyano, and nitro;

R^{10} is selected from hydrogen and C_{1-6} alkyl;

a is one or two;

Ring A is an aromatic ring;

unsubstituted or substituted with amino, hydroxyl, or halo; wherein R²¹ may be absent as needed
~~not present~~ to satisfy valency;

R¹¹ is selected from hydrogen and C₁₋₆ alkyl;

R¹² is selected from hydrogen and C₁₋₆ alkyl; and

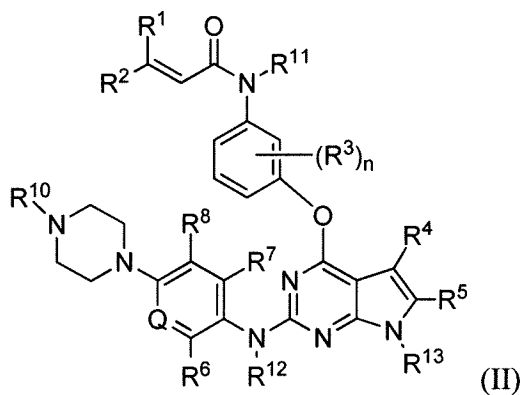
R¹³ is selected from hydrogen, C₁₋₆ alkyl, C₁₋₆ acyl, SO₂-C₁₋₆alkyl, C₃₋₇ cycloalkyl, and C₆₋₂₀ aryl,

wherein each alkyl or aryl is unsubstituted or substituted with hydroxyl, C₁₋₆

alkoxy, or halo;

or a pharmaceutically acceptable salt thereof.

3. The compound of claim 1, wherein the compound is a compound of Formula (II):



wherein

R¹ and R² are independently selected from hydrogen, halo, C₁₋₆ alkyl, and C₁₋₆ haloalkyl;

R³ is selected from ~~halo~~-hydroxyl, C₁₋₆ alkyl, C₁₋₆ alkoxy, cyano, and nitro;

n is a number from zero to 4;

R⁴ is selected from hydrogen, C₁₋₆ alkyl, C₃₋₇ cycloalkyl, and -NR²²R²³;

wherein the alkyl or cycloalkyl is unsubstituted or substituted with hydroxyl or amino; and

wherein each R²² and R²³ are independently selected from hydrogen and C₁₋₆ alkyl or R²² and R²³ may be joined to form a 3 to 10 membered ring;

R⁵ is selected from hydrogen and C₁₋₆ alkyl;

R⁶ is selected from hydrogen, halo, C₁₋₆ alkyl, C₁₋₆ haloalkyl, C₂₋₆ alkoxy, C₁₋₆ haloalkoxy, hydroxyl, cyano, and nitro;

R⁷ is selected from hydrogen, halo, C₁₋₆ alkyl, C₁₋₆ haloalkyl, C₂₋₆ alkoxy, C₁₋₆ haloalkoxy, hydroxyl, cyano, and nitro;

R⁸ is selected from hydrogen, halo, C₁₋₆ alkyl, C₁₋₆ haloalkyl, C₁₋₆ alkoxy, C₁₋₆ haloalkoxy, hydroxyl, cyano, and nitro;

Q is CR⁹ or N;

where R⁹ is selected from hydrogen, halo, C₁₋₆ alkyl, C₁₋₆ haloalkyl, C₁₋₆ alkoxy, C₁₋₆ haloalkoxy, hydroxyl, cyano, and nitro;

R¹⁰ is selected from hydrogen and C₁₋₆ alkyl;

R¹¹ is selected from hydrogen and C₁₋₆ alkyl;

R¹² is selected from hydrogen and C₁₋₆ alkyl; and

R¹³ is selected from hydrogen, C₁₋₆ alkyl, and C₆₋₂₀ aryl, wherein each alkyl or aryl is unsubstituted or substituted with hydroxyl, C₁₋₆ alkoxy, or halo; or a pharmaceutically acceptable salt thereof.

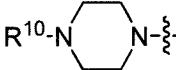
4. The compound of claim 1, wherein X¹ is O or NH.

5. The compound of ~~claim 1~~ any one of claims 1-4, wherein R¹¹ is hydrogen.

6. The compound of ~~claim 1~~ any one of claims 1-5, wherein R¹² is hydrogen.

7. The compound of ~~claim 1~~ any one of claims 1-6, wherein R¹ and R² are each hydrogen.

8. The compound of ~~claim 1~~ any one of claims 1-7, wherein n is zero.

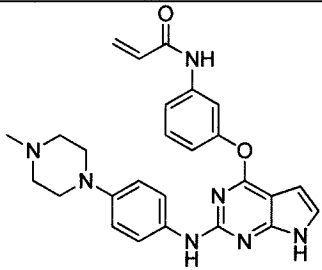
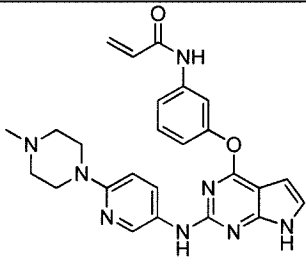
9. The compound of claim 1, wherein -NR¹⁸R¹⁹ is 

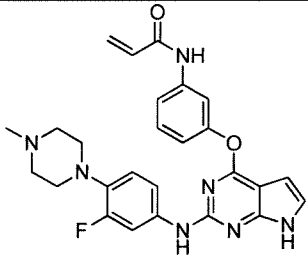
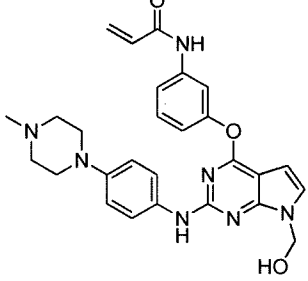
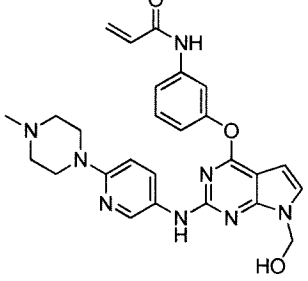
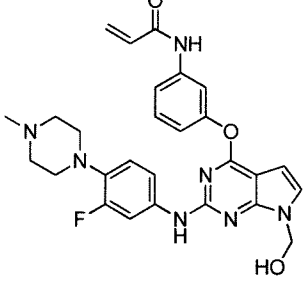
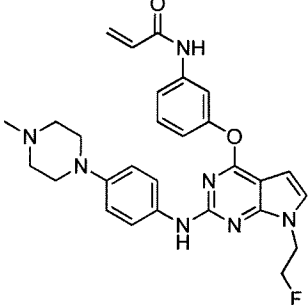
10. The compound of claim 9, wherein R¹⁰ is methyl.

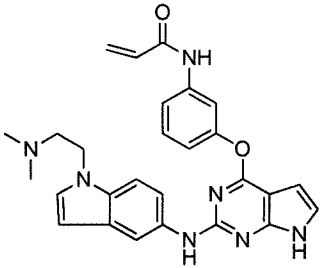
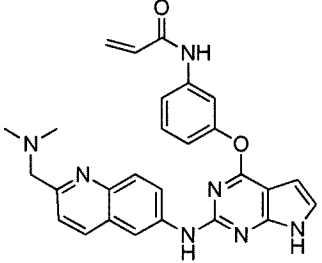
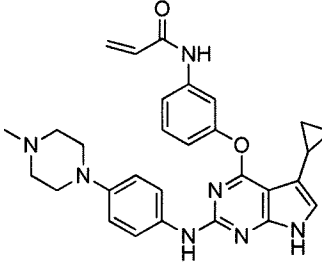
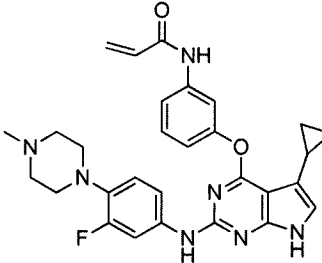
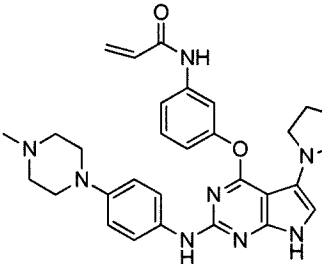
11. The compound of ~~claim 1~~ any one of claims 1-10, wherein R¹³ is hydrogen.

12. The compound of ~~claim 1~~ any one of claims 1-10, wherein R¹³ is C₁₋₆alkyl substituted with hydroxyl or halo.

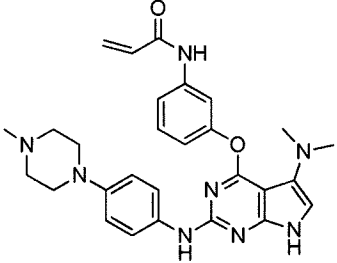
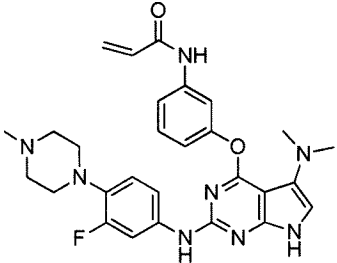
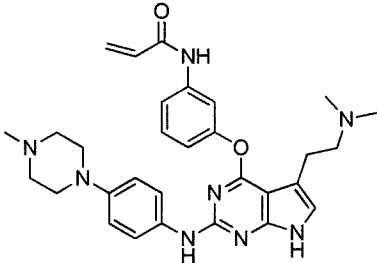
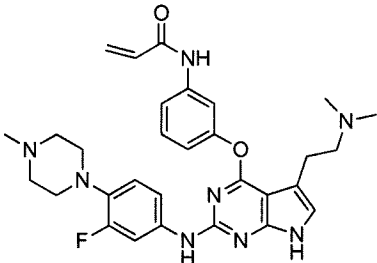
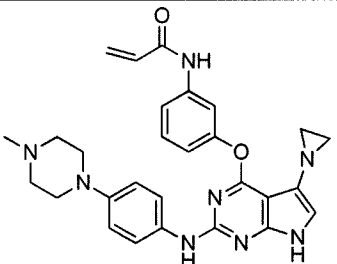
13. The compound of ~~claim 1~~ any one of claims 1-12, wherein R⁶ is hydrogen.
14. The compound of ~~claim 1~~ any one of claims 1-13, wherein R⁷ is hydrogen or methoxy.
15. The compound of ~~claim 1~~ any one of claims 1-14, wherein R⁸ is hydrogen.
16. The compound of ~~claim 1~~ any one of claims 1-15, wherein Q is N.
17. The compound of ~~claim 1~~ any one of claims 1-15, wherein Q is CR⁹.
18. The compound of claim 17, wherein R⁹ is hydrogen or fluoro.
19. The compound of claim 1, wherein R¹⁹ and R⁹ together form a 5- or 6-membered ring optionally substituted with C₁₋₆alkyl that is unsubstituted or substituted with amino.
20. A compound selected from the group consisting of:

	<p>N-(3-((2-((4-(4-methylpiperazin-1-yl)phenyl)amino)-7H-pyrrolo[2,3-d]pyrimidin-4-yl)oxy)phenyl)acrylamide</p>
	<p>N-(3-((2-((6-(4-methylpiperazin-1-yl)pyridin-3-yl)amino)-7H-pyrrolo[2,3-d]pyrimidin-4-yl)oxy)phenyl)acrylamide</p>

	<p>N-(3-((2-((3-fluoro-4-(4-methylpiperazin-1-yl)phenyl)amino)-7H-pyrrolo[2,3-d]pyrimidin-4-yl)oxy)phenyl)acrylamide</p>
	<p>N-(3-((7-(hydroxymethyl)-2-((4-(4-methylpiperazin-1-yl)phenyl)amino)-7H-pyrrolo[2,3-d]pyrimidin-4-yl)oxy)phenyl)acrylamide</p>
	<p>N-(3-((7-(hydroxymethyl)-2-((6-(4-methylpiperazin-1-yl)pyridin-3-yl)amino)-7H-pyrrolo[2,3-d]pyrimidin-4-yl)oxy)phenyl)acrylamide</p>
	<p>N-(3-((2-((3-fluoro-4-(4-methylpiperazin-1-yl)phenyl)amino)-7-(hydroxymethyl)-7H-pyrrolo[2,3-d]pyrimidin-4-yl)oxy)phenyl)acrylamide</p>
	<p>N-(3-((7-(2-fluoroethyl)-2-((4-(4-methylpiperazin-1-yl)phenyl)amino)-7H-pyrrolo[2,3-d]pyrimidin-4-yl)oxy)phenyl)acrylamide</p>

	<p>N-(3-((2-((1-(2-(dimethylamino)ethyl)-1H-indol-5-yl)amino)-7H-pyrrolo[2,3-d]pyrimidin-4-yl)oxy)phenyl)acrylamide</p>
	<p>N-(3-((2-((2-((dimethylamino)methyl)quinolin-6-yl)amino)-7H-pyrrolo[2,3-d]pyrimidin-4-yl)oxy)phenyl)acrylamide</p>
	<p>N-(3-((5-cyclopropyl-2-((4-(4-methylpiperazin-1-yl)phenyl)amino)-7H-pyrrolo[2,3-d]pyrimidin-4-yl)oxy)phenyl)acrylamide</p>
	<p>N-(3-((5-cyclopropyl-2-((3-fluoro-4-(4-methylpiperazin-1-yl)phenyl)amino)-7H-pyrrolo[2,3-d]pyrimidin-4-yl)oxy)phenyl)acrylamide</p>
	<p>N-(3-((2-((4-(4-methylpiperazin-1-yl)phenyl)amino)-5-(pyrrolidin-1-yl)-7H-pyrrolo[2,3-d]pyrimidin-4-yl)oxy)phenyl)acrylamide</p>

	<p>N-(3-((2-((3-fluoro-4-(4-methylpiperazin-1-yl)phenyl)amino)-5-(pyrrolidin-1-yl)-7H-pyrrolo[2,3-d]pyrimidin-4-yl)oxy)phenyl)acrylamide</p>
	<p>N-(3-((5-(2-hydroxyethyl)-2-((4-(4-methylpiperazin-1-yl)phenyl)amino)-7H-pyrrolo[2,3-d]pyrimidin-4-yl)oxy)phenyl)acrylamide</p>
	<p>N-(3-((2-((3-fluoro-4-(4-methylpiperazin-1-yl)phenyl)amino)-5-(2-hydroxyethyl)-7H-pyrrolo[2,3-d]pyrimidin-4-yl)oxy)phenyl)acrylamide</p>
	<p>N-(3-((5-((dimethylamino)methyl)-2-((4-(4-methylpiperazin-1-yl)phenyl)amino)-7H-pyrrolo[2,3-d]pyrimidin-4-yl)oxy)phenyl)acrylamide</p>
	<p>N-(3-((5-((dimethylamino)methyl)-2-((3-fluoro-4-(4-methylpiperazin-1-yl)phenyl)amino)-7H-pyrrolo[2,3-d]pyrimidin-4-yl)oxy)phenyl)acrylamide</p>

	<p>N-(3-((5-(dimethylamino)-2-((4-(4-methylpiperazin-1-yl)phenyl)amino)-7H-pyrrolo[2,3-d]pyrimidin-4-yl)oxy)phenyl)acrylamide</p>
	<p>N-(3-((5-(dimethylamino)-2-((3-fluoro-4-(4-methylpiperazin-1-yl)phenyl)amino)-7H-pyrrolo[2,3-d]pyrimidin-4-yl)oxy)phenyl)acrylamide</p>
	<p>N-(3-((5-(2-(dimethylamino)ethyl)-2-((4-(4-methylpiperazin-1-yl)phenyl)amino)-7H-pyrrolo[2,3-d]pyrimidin-4-yl)oxy)phenyl)acrylamide</p>
	<p>N-(3-((5-(2-(dimethylamino)ethyl)-2-((3-fluoro-4-(4-methylpiperazin-1-yl)phenyl)amino)-7H-pyrrolo[2,3-d]pyrimidin-4-yl)oxy)phenyl)acrylamide</p>
	<p>N-(3-((5-(aziridin-1-yl)-2-((4-(4-methylpiperazin-1-yl)phenyl)amino)-7H-pyrrolo[2,3-d]pyrimidin-4-yl)oxy)phenyl)acrylamide</p>

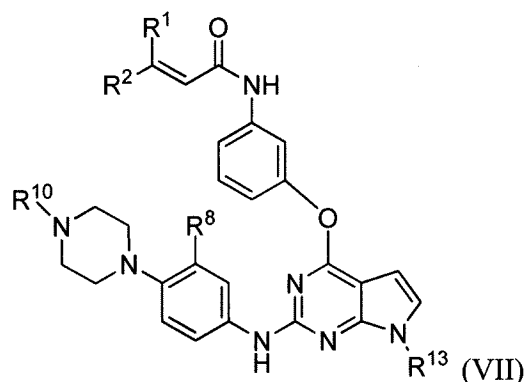
	<p>N-(3-((5-(aziridin-1-yl)-2-((3-fluoro-4-(4-methylpiperazin-1-yl)phenyl)amino)-7H-pyrrolo[2,3-d]pyrimidin-4-yl)oxy)phenyl)acrylamide</p>
	<p>N-(3-((5-(azetidin-1-yl)-2-((4-(4-methylpiperazin-1-yl)phenyl)amino)-7H-pyrrolo[2,3-d]pyrimidin-4-yl)oxy)phenyl)acrylamide</p>
	<p>N-(3-((5-(azetidin-1-yl)-2-((3-fluoro-4-(4-methylpiperazin-1-yl)phenyl)amino)-7H-pyrrolo[2,3-d]pyrimidin-4-yl)oxy)phenyl)acrylamide</p>
	<p>N-(3-((2-((4-(4-methylpiperazin-1-yl)phenyl)amino)-5-(piperidin-1-yl)-7H-pyrrolo[2,3-d]pyrimidin-4-yl)oxy)phenyl)acrylamide</p>
	<p>N-(3-((2-((3-fluoro-4-(4-methylpiperazin-1-yl)phenyl)amino)-5-(piperidin-1-yl)-7H-pyrrolo[2,3-d]pyrimidin-4-yl)oxy)phenyl)acrylamide</p>

	<p>N-(3-((7-cyclopropyl-2-((4-(4-methylpiperazin-1-yl)phenyl)amino)-7H-pyrrolo[2,3-d]pyrimidin-4-yl)oxy)phenyl)acrylamide</p>
	<p>N-(3-((7-cyclopropyl-2-((3-fluoro-4-(4-methylpiperazin-1-yl)phenyl)amino)-7H-pyrrolo[2,3-d]pyrimidin-4-yl)oxy)phenyl)acrylamide</p>
	<p>N-(3-((2-((4-(4-methylpiperazin-1-yl)phenyl)amino)-7-(methylsulfonyl)-7H-pyrrolo[2,3-d]pyrimidin-4-yl)oxy)phenyl)acrylamide</p>
	<p>N-(3-((2-((3-fluoro-4-(4-methylpiperazin-1-yl)phenyl)amino)-7-(methylsulfonyl)-7H-pyrrolo[2,3-d]pyrimidin-4-yl)oxy)phenyl)acrylamide</p>
	<p>N-(3-((7-acetyl-2-((4-(4-methylpiperazin-1-yl)phenyl)amino)-7H-pyrrolo[2,3-d]pyrimidin-4-yl)oxy)phenyl)acrylamide</p>

	<p>N-(3-((7-acetyl-2-((3-fluoro-4-(4-methylpiperazin-1-yl)phenyl)amino)-7H-pyrrolo[2,3-d]pyrimidin-4-yl)oxy)phenyl)acrylamide</p>
	<p>N-(3-(2-(4-(1-(2-fluoroethyl)azetidin-3-ylamino)-2-methoxyphenylamino)-7H-pyrrolo[2,3-d]pyrimidin-4-yl)oxy)phenyl)acrylamide</p>
	<p>N-(3-(2-(4-(1-(2-fluoroethyl)azetidin-3-ylamino)-2-methoxyphenylamino)-7H-pyrrolo[2,3-d]pyrimidin-4-yl)amino)phenyl)acrylamide; and</p>
	<p>N-(3-((2-((2-(piperidin-1-ylmethyl)quinolin-6-yl)amino)-7H-pyrrolo[2,3-d]pyrimidin-4-yl)oxy)phenyl)acrylamide</p>

and pharmaceutically acceptable salts thereof.

21. The compound of claim 1, wherein the compound is a compound of Formula (VII):



wherein

R¹ and R² are independently selected from hydrogen, halo, C₁₋₆ alkyl, and C₁₋₆ haloalkyl;

R⁸ is selected from halo, C₁₋₆ alkyl, C₁₋₆ haloalkyl, C₁₋₆ alkoxy, C₁₋₆ haloalkoxy, hydroxyl, cyano, and nitro;

R¹⁰ is C₁₋₆ alkyl; and

R¹³ is hydrogen or C₁₋₆ alkyl;

or a pharmaceutically acceptable salt thereof.

22. The compound of claim 21, wherein R¹ and R² are each hydrogen.

23. The compound of claims 21 or 22, wherein R⁸ is halo.

24. The compound of claim 23, wherein R⁸ is fluoro.

25. The compound of any one of claims 21-24, wherein R¹⁰ is methyl, ethyl, or isopropyl.

26. The compound of claim 25, wherein R¹⁰ is methyl.

27. The compound of any one of claims 21-26, wherein R¹³ is hydrogen.

28. A pharmaceutical composition comprising (a) at least one compound of any of claims 1-27 or a pharmaceutically acceptable salt thereof, and (b) a pharmaceutically acceptable carrier or excipient.

~~23~~29. The compound of any of claims ~~1-21~~1-27 or a pharmaceutically acceptable salt thereof, for use in a method of treating and/or preventing a proliferation disorder, cancer, a tumor, an inflammatory disease, an autoimmune disease, psoriasis, dry eye or an immunologically related disease, wherein said compound or pharmaceutically acceptable salt thereof is for administering in an effective amount to a subject in need of such treatment.

~~24.~~ The compound or a pharmaceutically acceptable salt thereof, for the use of claim ~~23~~, wherein the proliferation disorder is selected from the group consisting of sarcoma, epidermoid cancer, fibrosarcoma, cervical cancer, gastric carcinoma, skin cancer, leukemia, lymphoma, lung cancer, non-small cell lung cancer, colon cancer, CNS cancer, melanoma, ovarian cancer, renal cancer, prostate cancer, breast cancer, liver cancer, head and neck cancers, and pancreatic cancer.

~~25.~~ The compound or a pharmaceutically acceptable salt thereof, for the use of claim ~~23~~, wherein said compound is for administering in an effective amount of a second prophylactic or therapeutic agent for use in treating and/or preventing a proliferation disorder in a subject.

~~26~~30. The compound N-(3-((2-((3-fluoro-4-(4-methylpiperazin-1-yl)phenyl)amino)-7H-pyrrolo[2,3-d]pyrimidin-4-yl)oxy)phenyl)acrylamide or a pharmaceutically acceptable salt thereof.

~~27~~31. The compound of claim ~~26~~30, wherein the compound is N-(3-((2-((3-fluoro-4-(4-methylpiperazin-1-yl)phenyl)amino)-7H-pyrrolo[2,3-d]pyrimidin-4-yl)oxy)phenyl)acrylamide hydrochloride salt or maleate salt.

~~28~~32. The pharmaceutical composition of claim ~~22~~28, wherein the pharmaceutically acceptable salt is a HCl salt, a maleate salt, a HBr salt, a hydroxybutanedioic acid salt or a fumaric acid salt.

~~29~~33. The compound ~~for the use of claim 23~~for the use of claim 29, wherein the pharmaceutically acceptable salt is a HCl salt, a maleate salt, a HBr salt, a hydroxybutanedioic acid salt or a fumaric acid salt.

~~30~~34. Use of a compound of any of claims ~~1-21, 26 and 27~~1-27, 30 and 31, or a pharmaceutically acceptable salt thereof for the manufacture of a medicament for treating and/or

preventing a proliferation disorder, cancer, a tumor, an inflammatory disease, an autoimmune disease, psoriasis, dry eye or an immunologically related disease.

~~31. Use according to claim 30, wherein the medicament is for treating and/or preventing a proliferation disorder, cancer, a tumor, an inflammatory disease, an autoimmune disease, psoriasis, dry eye or an immunologically related disease.~~

~~32~~35. Use according to claim ~~31~~34, wherein the proliferation disorder is selected from the group consisting of sarcoma, epidermoid cancer, fibrosarcoma, cervical cancer, gastric carcinoma, skin cancer, leukemia, lymphoma, lung cancer, non- small cell lung cancer, colon cancer, CNS cancer, melanoma, ovarian cancer, renal cancer, prostate cancer, breast cancer, liver cancer, head and neck cancers, and pancreatic cancer.

~~33~~36. A combination for treating and/or preventing a proliferation disorder, a cancer, a tumor, an inflammatory disease, an autoimmune disease, psoriasis, dry eye or an immunologically related disease in a subject, which combination comprises an effective amount of a compound of any of claims ~~1-21, 26 and 27~~ 1-27, 30 and 31, or a pharmaceutically acceptable salt thereof, and an effective amount of a second prophylactic or therapeutic agent for treating and/or preventing a proliferation disorder, a cancer, a tumor, an inflammatory disease, an autoimmune disease, psoriasis, dry eye or an immunologically related disease in a subject.

~~34~~37. The combination of claim ~~33~~36 for use in a method for treating and/or preventing a proliferation disorder, a cancer, a tumor, an inflammatory disease, an autoimmune disease, psoriasis, dry eye or an immunologically related disease in a subject, wherein said combination is for administering in an effective amount to a subject in need thereof.

38. The use of claim 34, further comprising an effective amount of a second prophylactic or therapeutic agent.