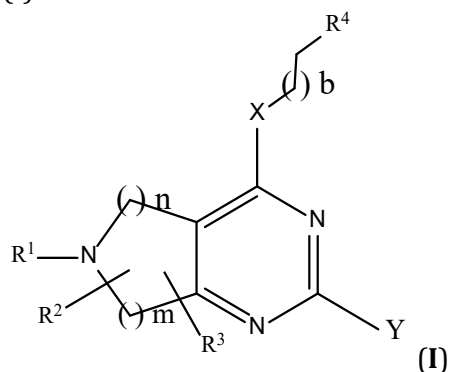


## CLAIMS

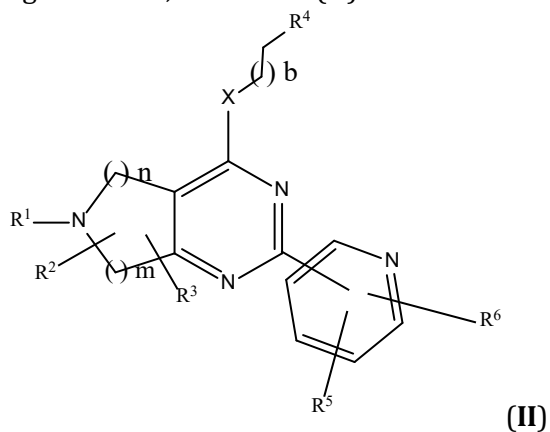
1. A compound of formula (I)



wherein:

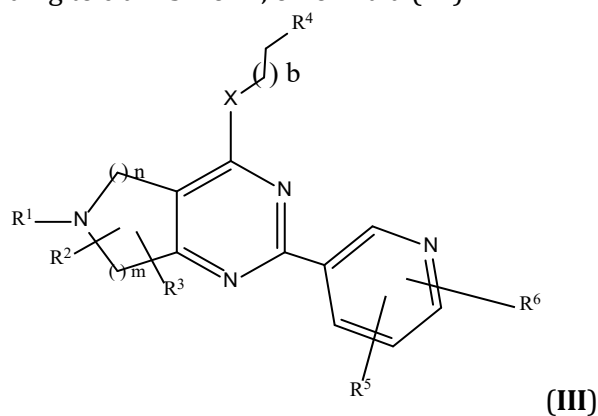
- Y is a 5 or 6 membered ring optionally comprising 1, 2, or 3 heteroatoms selected from N, O and S, substituted with R<sup>5</sup> and R<sup>6</sup>;
  - R<sup>1</sup> is H, C<sub>1-3</sub> alkyl, (-CH<sub>2</sub>)<sub>p</sub>CN, -COC<sub>1-3</sub> alkyl, -CO(CH<sub>2</sub>)<sub>q</sub>NR<sup>7</sup>R<sup>8</sup>, -SO<sub>2</sub>C<sub>1-3</sub> alkyl, -SO<sub>2</sub>NR<sup>7</sup>R<sup>8</sup>, -(CH<sub>2</sub>)<sub>q</sub>Ph, -C(O)Z;
  - R<sup>2</sup> is H or C<sub>1-3</sub> alkyl;
  - R<sup>3</sup> is H or C<sub>1-3</sub> alkyl;
  - R<sup>4</sup> is a 9 or 10 membered heteroaryl with at least one heteroatom selected from N, O or S, with substituents R<sup>9</sup> and R<sup>10</sup>;
  - R<sup>5</sup> is H, hydroxy, halogen, CN or a C<sub>1-3</sub> alkyl group, -CO(CH<sub>2</sub>)<sub>q</sub>NR<sup>7</sup>R<sup>8</sup>, -SO<sub>2</sub>C<sub>1-3</sub> alkyl, -SO<sub>2</sub>NR<sup>7</sup>R<sup>8</sup>;
  - R<sup>6</sup> is hydroxy, halogen, CN or a C<sub>1-3</sub> alkyl group, -CO(CH<sub>2</sub>)<sub>q</sub>NR<sup>7</sup>R<sup>8</sup>, -SO<sub>2</sub>C<sub>1-3</sub> alkyl, -SO<sub>2</sub>NR<sup>7</sup>R<sup>8</sup>;
  - R<sup>7</sup> is H or C<sub>1-3</sub> alkyl;
  - R<sup>8</sup> is H or C<sub>1-3</sub> alkyl;
  - R<sup>9</sup> is H, hydroxy, halogen, CN or a C<sub>1-3</sub> alkyl group, -CO(CH<sub>2</sub>)<sub>q</sub>NR<sup>7</sup>R<sup>8</sup>, -SO<sub>2</sub>C<sub>1-3</sub> alkyl, -SO<sub>2</sub>NR<sup>7</sup>R<sup>8</sup>;
  - R<sup>10</sup> is H, hydroxy, halogen, CN or a C<sub>1-3</sub> alkyl group, -CO(CH<sub>2</sub>)<sub>q</sub>NR<sup>7</sup>R<sup>8</sup>, -SO<sub>2</sub>C<sub>1-3</sub> alkyl, -SO<sub>2</sub>NR<sup>7</sup>R<sup>8</sup>;
  - R<sup>11</sup> is H or C<sub>1-3</sub> alkyl;
  - X is NR<sup>11</sup> or O;
  - Z is a 5 or 6 membered heteroaryl optionally bears one or two substituents selected from hydroxy, halogen, CN, C<sub>1-3</sub> alkyl;
  - b is an integer 1 or 2;
  - n is an integer 1 or 2;
  - m is an integer 1 or 2;
  - p is an integer 1, 2 or 3;
  - q is 0, 1, 2 or 3,
- or a pharmaceutically acceptable salt thereof.

2. A compound according to claim 1, of formula (II):



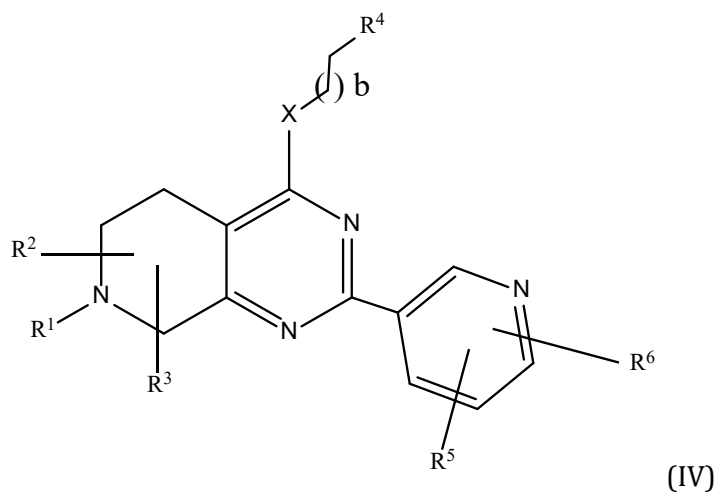
or a pharmaceutically acceptable salt thereof wherein X, R<sup>1</sup>, R<sup>2</sup>, R<sup>3</sup>, R<sup>4</sup>, R<sup>5</sup>, R<sup>6</sup>, b, n and m are defined above for compounds of formula (I).

3. A compound according to claims 1 or 2, of formula (III):



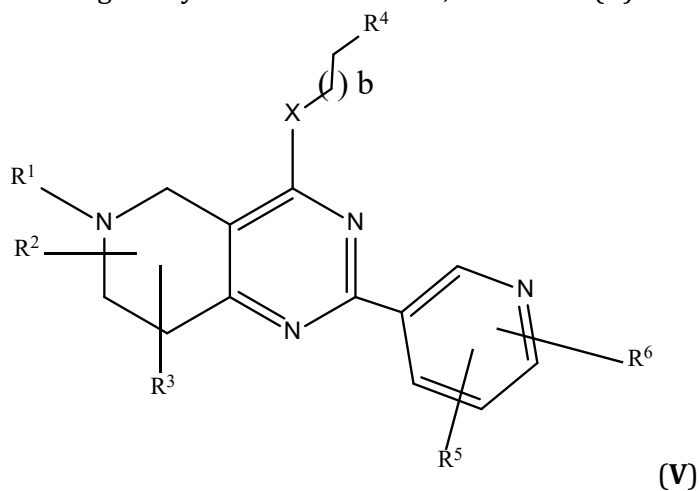
or a pharmaceutically acceptable salt thereof, wherein X, R<sup>1</sup>, R<sup>2</sup>, R<sup>3</sup>, R<sup>4</sup>, R<sup>5</sup>, R<sup>6</sup>, b, n and m are defined above for compounds of formula (I).

4. A compound according to any one of claims 1 to 3, of formula (IV):



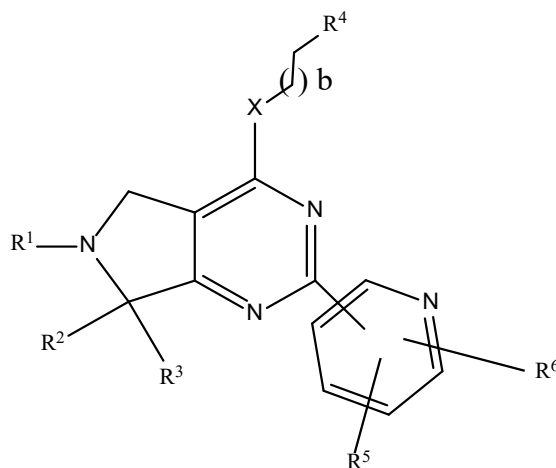
or a pharmaceutically acceptable salt thereof, wherein X, R<sup>1</sup>, R<sup>2</sup>, R<sup>3</sup>, R<sup>4</sup>, R<sup>5</sup>, R<sup>6</sup>, and b are defined above for compounds of formula (I).

5. A compound according to any one of claims 1 to 3, of formula (V):



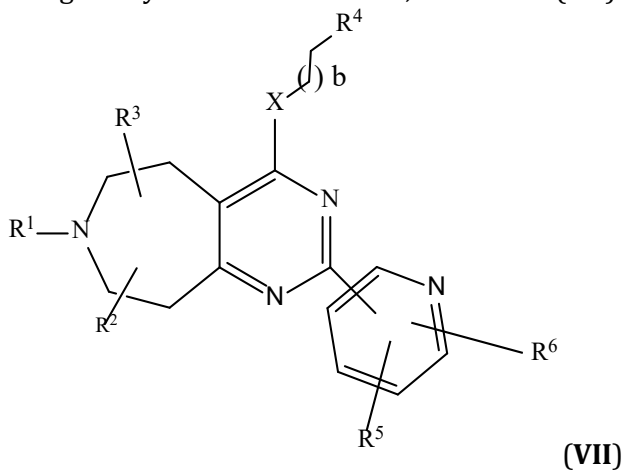
or a pharmaceutically acceptable salt thereof, wherein X, R<sup>1</sup>, R<sup>2</sup>, R<sup>3</sup>, R<sup>4</sup>, R<sup>5</sup>, R<sup>6</sup>, and b are defined above for compounds of formula (I).

6. A compound according to any one of claims 1 to 3, of formula (VI):



or a pharmaceutically acceptable salt thereof, wherein X, R<sup>1</sup>, R<sup>2</sup>, R<sup>3</sup>, R<sup>4</sup>, R<sup>5</sup>, R<sup>6</sup>, and b are defined above for compounds of formula (I).

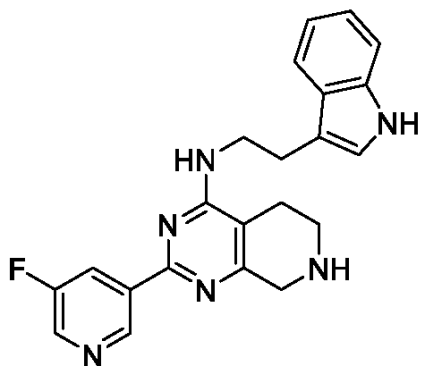
7. A compound according to any one of claims 1 to 3, of formula (VII):



or a pharmaceutically acceptable salt thereof, wherein X, R<sup>1</sup>, R<sup>2</sup>, R<sup>3</sup>, R<sup>4</sup>, R<sup>5</sup>, R<sup>6</sup>, and b are defined above for compounds of formula (I).

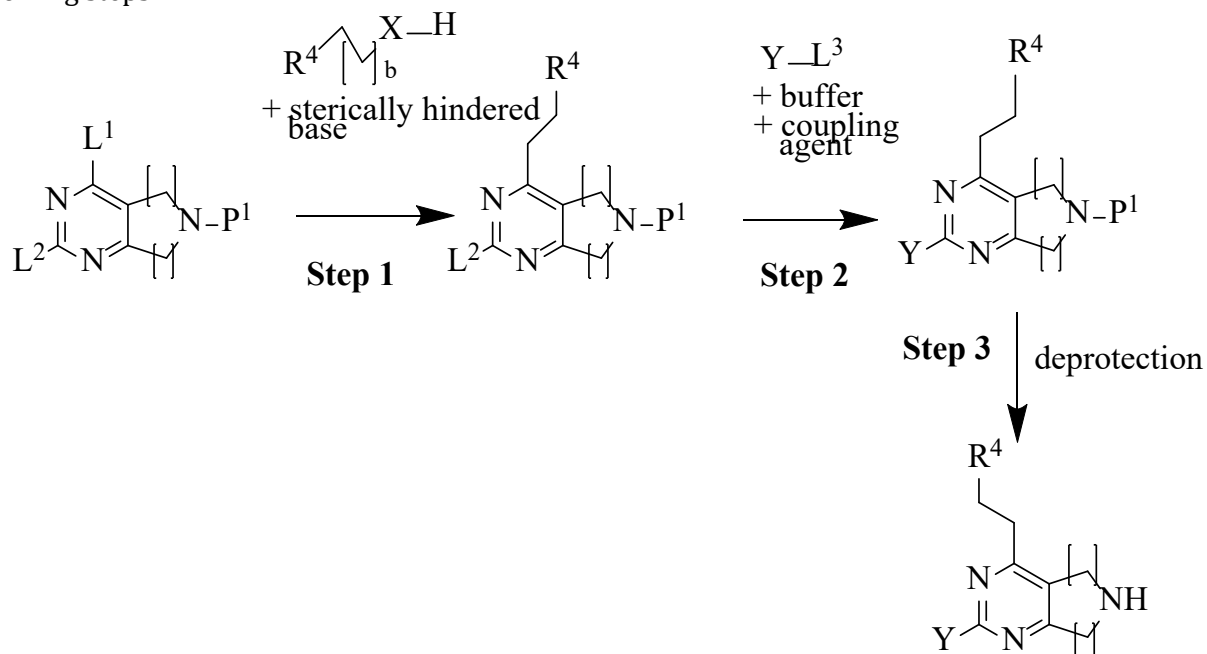
8. A compound according to any one of claims 1 to 7, wherein R<sup>1</sup> is independently selected from H, CH<sub>3</sub>, -CH<sub>2</sub>CH<sub>3</sub>, -CH<sub>2</sub>CH<sub>2</sub>CH<sub>3</sub>, -CH(CH<sub>3</sub>)<sub>2</sub>, -C(O)NH<sub>2</sub>, -C(O)NHCH<sub>3</sub>, -C(O)N(CH<sub>3</sub>)<sub>2</sub>, -CH<sub>2</sub>CN, -SO<sub>2</sub>NH<sub>2</sub>, -SO<sub>2</sub>CH<sub>3</sub>, -SO<sub>2</sub>N(CH<sub>3</sub>)<sub>2</sub>, -CH<sub>2</sub>Ph, and -C(O)-(1-Me-Pyrazol-5-yl).
9. A compound according to any one of claims 1 to 8, wherein R<sup>2</sup> is H or -CH<sub>3</sub>.
10. A compound according to any one of claims 1 to 9, wherein R<sup>3</sup> is H or -CH<sub>3</sub>.

11. A compound according to any one of claims 1 to 10, wherein R<sup>4</sup> is selected from indolyl and benzimidazolyl.
12. A compound according to any one of claims 1 to 11, wherein R<sup>5</sup> is selected from H, F, Cl, CN and -CH<sub>3</sub>.
13. A compound according to any one of claims 1 to 12, wherein R<sup>6</sup> is F, Cl, CN or -CH<sub>3</sub>.
14. A compound according to any one of claims 1 to 13, wherein R<sup>7</sup> is selected from H and -CH<sub>3</sub>.
15. A compound according to any one of claims 1 to 14, wherein R<sup>8</sup> is selected from H and -CH<sub>3</sub>.
16. A compound according to any one of claims 1 to 15, wherein R<sup>11</sup> is H.
17. A compound according to claim 1, having the formula:



18. A pharmaceutical composition comprising a compound according to any one of claims 1 to 17 and an excipient, diluent or carrier.
19. A compound according to any one of claims 1 to 17 or a pharmaceutical composition according to claim 18, for use in treatment.
20. Use of a compound according to any one of claims 1 to 17 or a pharmaceutical composition according to claim 18 in the manufacture of a medicament for the treatment of cancer.

21. A method of preparing a compound according to any one of claims 1 to 17, comprising the following steps:



wherein:

$L^1$  and  $L^2$  are leaving groups;

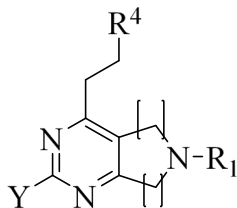
$L^3$  is a leaving group;

$P^1$  is a protecting group;

$b$  is 1; and

$R^4$ ,  $X$  and  $Y$  are as defined in claim 1 for compounds of formula (I).

22. A method of preparing a compound according to any one of claims 1 to 17, comprising the following steps:



**R<sup>1</sup>, R<sup>4</sup> and X and Y** are as defined in claim 1 for compounds of formula (I).