CLAIMS

1. A compound represented by the following or a pharmaceutically acceptable salt:

1) 1-((3S,4R)-3-(5-chloro-2-(1-ethyl-1H-pyrazol-4-ylamino)-7H-pyrrolo[2,3-d]pyrimidin-4-ylamino)-4-fluoropiperidin-1-yl)prop-2-en-1-one,

2) 1-((3S,4R)-3-(5-chloro-2-(1-(2,2-difluoroethyl)-1H-pyrazol-4-ylamino)-7H-pyrrolo[2,3-d]pyrimidin-4-ylamino)-4-fluoropiperidin-1-yl)prop-2-en-1-one,

3) 1-((3S,4R)-3-(5-chloro-2-(1-cyclopropyl-1H-pyrazol-4-ylamino)-7H-pyrrolo[2,3-d]pyrimidin-4-ylamino)-4-fluoropiperidin-1-yl)prop-2-en-1-one,

4) 1-((3S,4R)-3-(5-chloro-2-(isoxazol-4-ylamino)-7H-pyrrolo[2,3-d]pyrimidin-4-ylamino)-4-fluoropiperidin-1-yl)prop-2-en-1-one,

5) 1-((3S,4R)-3-(5-chloro-2-(isothiazol-4-ylamino)-7H-pyrrolo[2,3-d]pyrimidin-4-ylamino)-4-fluoropiperidin-1-yl)prop-2-en-1-one,

6) 4-((3S,4R)-1-acryloyl-4-fluoropiperidin-3-ylamino)-2-(1-ethyl-1H-pyrazol-4-ylamino)-7H-pyrrolo[2,3-d]pyrimidine-5-carbonitrile,

7) 4-((3S,4R)-1-acryloyl-4-fluoropiperidin-3-ylamino)-2-(1-(2,2-difluoroethyl)-1H-pyrazol-4-ylamino)-7H-pyrrolo[2,3-d]pyrimidine-5-carbonitrile,

8) 4-((3S,4R)-1-acryloyl-4-fluoropiperidin-3-ylamino)-2-(1-cyclopropyl-1H-pyrazol-4-ylamino)-7H-pyrrolo[2,3-d]pyrimidine-5-carbonitrile,

9) 4-((3S,4R)-1-acryloyl-4-fluoropiperidin-3-ylamino)-2-(isoxazol-4-ylamino)-7H-pyrrolo[2,3-d]pyrimidine-5-carbonitrile,

10) 1-((3S,4R)-3-(2-(1-ethyl-1H-pyrazol-4-ylamino)-5-methyl-7H-pyrrolo[2,3-d]pyrimidin-4-ylamino)-4-fluoropiperidin-1-yl)prop-2-en-1-one,

11) 1-((3S,4R)-4-fluoro-3-(2-(isoxazol-4-ylamino)-5-methyl-7H-pyrrolo[2,3-d]pyrimidin-4-ylamino)piperidin-1-yl)prop-2-en-1-one, and

12) 1-((3S,4S)-3-(5-chloro-2-(1-ethyl-1H-pyrazol-4-ylamino)-7H-

pyrrolo[2,3-d]pyrimidin-4-ylamino)-4-fluoropiperidin-1-yl)prop-2-en-1-one.

5. A pharmaceutical composition for the prevention or treatment of inflammatory disease, autoimmune disease, proliferative disease, hyperproliferative disease, immunity mediated disease, cancer or tumor, comprising the compound according to claim 1 or a pharmaceutically acceptable salt thereof.