where

R is a C_3–C_8 cycloalkyl group optionally substituted by a straight or branched C_1—C_6 alkyl group;

R_1 is a straight or branched C_1–C_6 alkyl, C_2–C_6 alkenyl, cycloalkyl, aryl, arylalkyl, arylcarbonyl, aryloxyalkyl or arylalkenyl group, which may optionally be substituted by one or more groups selected from the group consisting of cycloalkyl, hydroxy, alkylthio, alkoxy, amino, alkylamino, dialkylamino, alkoxycarbonylamino, alkoxycarbonylalkylamino, alkylcarbonyl, alkylsulphonyl, alkoxycarbonyl, carboxy, halogen, nitro, aryloxy, arylthio, arylsulphonyl, N-alkyl-piperazinyl, piperidinyl, 4-morpholinyl, arylamino, cyano, alkyl, aryl, oxo, haloaryl, haloarylalkyl, haloaryloxy, haloarylsulphonyl, aminosulphonyl, aminocarbonyl, arylcarbonyl, perfluorinated alkyl and perfluorinated alkoxy groups;

or a pharmaceutically acceptable salt therof.

In a preferred embodiment of the method described above, the cell proliferative disorder is selected from the group consisting of cancer, Alzheimer's disease, viral infections, auto-immume diseases and neurodegenerative disorders.

Specific types of cancer that may be treated include carcinoma, squamous cell carcinoma, hematopoietic tumors of myeloid or lymphoid lineage, tumors of mesenchymal origin, tumors of the central and peripheral nervous system, melanoma, seminoma, teratocarcinoma, osteosarcoma, xenoderoma pigmentosam, keratoctanthoma, thyroid follicular cancer, and Kaposi's sarcoma.

In another preferred embodiment of the method described above, the cell proliferative disorder is selected from the group consisting of benign prostate hyperplasia, familial adenomatosis polyposis, neuro-fibromatosis, psoriasis, vascular smooth cell proliferation associated with atherosclerosis, pulmonary fibrosis, arthritis glomerulonephritis and post-surgical stenosis and restenosis.

In addition, the inventive method provides tumor angiogenesis and metastasis inhibition. The inventive method may also provide cell cycle inhibition or cdk/cyclin dependent inhibition.

The present invention also provides a 3-amino-pyrazole derivative represented by formula (I).

(I)

alkoxycarbonyl, carboxy, halogen, nitro, aryloxy, arylthio, arylsulphonyl, N-alkyl-piperazinyl, piperidinyl, 4-morpholinyl, arylamino, cyano, alkyl, aryl, oxo, haloaryl, haloarylalkyl, haloaryloxy, haloarylsulphonyl, aminosulphonyl, aminocarbonyl, arylcarbonyl, perfluorinated alkyl and perfluorinated alkoxy groups;

or a pharmaceutically acceptable salt therof.

The present invention also includes methods of synthesizing the 3-amino-pyrazole derivative represented by formula (I). A pharmaceutical composition comprising the 3-amino-pyrazole derivative represented by formula (I) is also included in the present invention.

The present invention also includes a compound useful in the synthesis the 3-amino- pyrazole derivative represented by formula (I), which is represented by formula (V):

(V)

where R is a C_3–C_8 cycloalkyl group optionally substituted with a straight or branched C_1–C_6 alkyl group.

A more complete appreciation of the invention and many of the attendant advantages thereof will be readily obtained as the same becomes better understood by reference to the following detailed description.

DETAILED DESCRIPTION OF THE INVENTION

Several 3-amino-pyrazole derivatives are known as pesticides, herbicides or even as therapeutic agents. Among them are, as an example, heteroaryl-pyrazoles active as p38 kinase inhibitors (WO 98/52941, G. D. Searle and Co.) and other 3-amino-pyrazoles which inhibit protein kinases (WO 96/14843, COR Therapeutics, Inc.).

As will be readily appreciated, the unsubstituted ring nitrogen pyrazoles in the compounds of the invention are known to rapidly equilibrate, in solution, as admixtures of both tautomers:

(I) (Ia)

Accordingly, in the present invention, where only one tautomer is indicated for the compounds of formula (I), the other, (Ia), is also within the scope of the present invention.

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