

Title (en)

RSK INHIBITORS AND THERAPEUTIC USES THEREOF

Title (de)

RSK-INHIBTOREN UND DEREN THERAPEUTISCHE ANWENDUNGEN

Title (fr)

INHIBITEURS RSK ET UTILISATIONS THERAPEUTIQUES DE CES DERNIERS

Publication

**EP 1539781 A4 20091202 (EN)**

Application

**EP 03760343 A 20030612**

Priority

- US 0318734 W 20030612
- US 38800602 P 20020612
- US 44955303 P 20030224

Abstract (en)

[origin: WO03105766A2] The present invention is directed to novel compounds and compositions that have Rsk specific inhibitory activity. In addition, inhibition of Rsk by the present compounds has been discovered to halt the proliferation of cancer cell lines while having little effect on the proliferation rate of normal cells. Therefore, the present invention identifies Rsk as a target for therapeutic intervention in diseased states in which the disease or the symptoms can be ameliorated by inhibition of Rsk catalytic activity.

IPC 1-7

**C07H 17/00**

IPC 8 full level

**C07H 17/07** (2006.01)

CPC (source: EP)

**A61K 31/7048** (2013.01); **C07H 17/07** (2013.01)

Citation (search report)

- [X] NAKATANI N ET AL: "Flavonoid Constituents of Zingiber zerumbet Smith", AGRICULTURAL AND BIOLOGICAL CHEMISTRY, JAPAN SOC. FOR BIOSCIENCE, BIOTECHNOLOGY AND AGROCHEM, TOKYO, JP, vol. 55, no. 2, 1 January 1991 (1991-01-01), pages 455 - 460, XP008113444, ISSN: 0002-1369
- [X] MATSUDA H ET AL: "Structural Requirements of Flavonoids and Related Compounds for Aldose Reductase Inhibitory Activity", CHEMICAL AND PHARMACEUTICAL BULLETIN, PHARMACEUTICAL SOCIETY OF JAPAN, TOKYO, JP, vol. 50, no. 6, 1 January 2002 (2002-01-01), pages 788 - 795, XP002996843, ISSN: 0009-2363
- [X] CHUNG H S ET AL: "FLAVONOID CONSTITUENTS OF CHORIZANTE DIFFUSA WITH POTENTIAL CANCER CHEMOPREVENTIVE ACTIVITY", JOURNAL OF AGRICULTURAL AND FOOD CHEMISTRY, AMERICAN CHEMICAL SOCIETY, WASHINGTON, US, vol. 47, no. 1, 1 January 1999 (1999-01-01), pages 36 - 41, XP000801963, ISSN: 0021-8561
- [X] JIN-RUI DAI ET AL.: "zerumbone,an HIV-inhibitory and cytotoxic sesquiterpene of zingiber aromaticum", NATURAL PRODUCT LETTERS, vol. 10, no. 2, 1997, amsterdam, pages 115 - 118, XP008113448
- [X] N.ALIGIANNIS ET AL.: "flavonoids as cycline-dependent kinase inhibitors.", PLANTA MED, vol. 67, no. 5, 2001, stuttgart-new-york, pages 468 - 470, XP002551401
- [X] TOSHIYA MASUDA ET AL.: "acetylated flavonol glycosides from zingiber zerumbet", PHYTOCHEMISTRY, vol. 30, no. 7, 1991, gb, pages 2391 - 2392, XP002551402
- [A] KOSTAS DIMAS ET AL.: "cytotoxic activity of kaempferol glycosides against human leukaemic cell line in vitro", PHARMACOLOGICAL RESEARCH, vol. 41, no. 1, 2000, engl., pages 85 - 88, XP002551403
- See references of WO 03105766A2

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PT RO SE SI SK TR

DOCDB simple family (publication)

**WO 03105766 A2 20031224; WO 03105766 A3 20040311;** AU 2003251513 A1 20031231; AU 2003251513 A8 20031231;  
CA 2488864 A1 20031224; EP 1539781 A2 20050615; EP 1539781 A4 20091202

DOCDB simple family (application)

**US 0318734 W 20030612;** AU 2003251513 A 20030612; CA 2488864 A 20030612; EP 03760343 A 20030612