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(81) Designated States *(unless otherwise indicated, for every kind of national protection available)*: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW.

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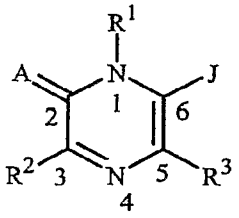

(I)

(57) Abstract: This invention pertains to a method of inhibiting undesired animal cellular proliferation said method comprising contacting an animal cell with a compound of Formula 1 and all pharmaceutically acceptable, salts, *N-oxides*, hydrates, solvates, or geometric and stereoisomers thereof: Formula (I) wherein R^1 is NR^4R^5, $N=CR^{19}R^{21}$ OR^6, G^1 or G^2; or C_1-C_8 alkyl, C_2-C_8 alkenyl, each optionally substituted; A is O, S or NR^7; R^2 is cyano, NR^8-$N=CR^9R^{10}$ or $NC(=O)R^{30}$; or a 5- or 6-membered heteroaromatic ring, each ring or ring system optionally substituted; R^3 is H, halogen, cyano, C_1-C_6 alkyl; J is C_1-C_8 alkyl or phenyl, optionally substituted; and R^4, R^5, R^6, R^7, R^8, R^9, R^{10}, R^{19}, R^{21}, R^{30}, G^1 and G^2 are defined in the disclosure.

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A. CLASSIFICATION OF SUBJECT MATTER
INV. A61K31/415 A61K31/4155 A61K31/4196 A61K31/4402 A61K31/4965
A61K31/497 A61K31/4985 C07D213/02 C07D231/10 C07D241/18
C07D241/20 C07D249/08 C07D403/04 C07D407/14 C07D409/14

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
A61K A61P C07D

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)
EPO-Internal, WPI Data, EMBASE, BIOSIS, FSTA

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 2004/043924 A (ASTRAZENECA AB [SE]; BLADH HAAKAN [SE]; KLINGSTEDT TOMAS [SE]; LARSSON) 27 May 2004 (2004-05-27) page 5, line 5 - page 9, line 16 page 52, line 21 - page 54, line 28	1,8-11
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[X] Further documents are listed in the continuation of Box C.

[X] See patent family annex.

* Special categories of cited documents :

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier document but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

"&" document member of the same patent family

Date of the actual completion of the international search	Date of mailing of the international search report
14 November 2007	11/12/2007

Name and mailing address of the ISA/	Authorized officer
European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	HOUYVET, C

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C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	AZZAM R ET AL: "Expanding the substitution pattern of 2(1H)-pyrazinones via Suzuki and Heck reactions" TETRAHEDRON, ELSEVIER SCIENCE PUBLISHERS, AMSTERDAM, NL, vol. 61, no. 16, 18 April 2005 (2005-04-18), pages 3953-3962, XP004896422 ISSN: 0040-4020 figure 1	12
X	TAHRI A ET AL: "Divergent Pathways in the Intramolecular Diels-Alder Reaction of 2(1H)-Pyrazinones Substituted at the 3-Position with a Phenylalkyne Containing Side Chain" TETRAHEDRON, ELSEVIER SCIENCE PUBLISHERS, AMSTERDAM, NL, vol. 55, no. 51, 17 December 1999 (1999-12-17), pages 14675-14684, XP004185335 ISSN: 0040-4020 tables 1,2	12
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Y	US 6 015 774 A (SHUTO AKIRA [JP] ET AL) 18 January 2000 (2000-01-18) column 1, lines 15-45 tables 2-5	1-23
Y	WO 2005/035527 A (PHARMACIA CORP [US]; BOYS MARK L [US]; CLARE MICHAEL [US]; MITTON-FRY) 21 April 2005 (2005-04-21) page 1, paragraph 2 page 2, paragraph 9 - page 5, paragraph 26 page 8, paragraphs 45,46	1-23
P,X	WO 2006/089060 A (DU PONT [US]; BEREZNAK JAMES FRANCIS [US]; SHARPE PAULA LOUISE [US]; S) 24 August 2006 (2006-08-24) page 2, line 1 - page 5; tables 1-6 tables A-B	12,18,19

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Box No. II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. [X] Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:

Although claims 1-11 and 20-23 are directed to a method of treatment of the human/animal body, the search has been carried out and based on the alleged effects of the compound.

2. [ ] Claims Nos.:
because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:

3. [ ] Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box No. III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

1. [ ] As all required additional search fees were timely paid by the applicant, this international search report covers allsearchable claims.

2. [ ] As all searchable claims could be searched without effort justifying an additional fees, this Authority did not invite payment of additional fees.

3. [ ] As only some of the required additional search fees were timely paid by the applicant, this international search reportcovers only those claims for which fees were paid, specifically claims Nos.:

4. [ ] No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

[ ] The additional search fees were accompanied by the applicant's protest and, where applicable, the payment of a protest fee.

[ ] The additional search fees were accompanied by the applicant's protest but the applicable protest fee was not paid within the time limit specified in the invitation.

[ ] No protest accompanied the payment of additional search fees.

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No
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