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- (88) Date of publication of the international search report:
17 October 2002
- For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.



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(54) Title: COMPOSITIONS AND METHODS FOR REGULATING THE CELL CYCLE USING A KI GENE OR POLYPEPTIDE

(57) Abstract: The present invention relates, generally, to compositions and methods for regulating the cell cycle, in particular apoptosis. The invention relates more specifically to compositions and methods using a Ki gene or polypeptide to regulate the cell cycle, in particular apoptosis, in cells, in vitro, ex vivo or in vivo. The invention also relates to compositions, vectors, cells and the like, which can be used to implement the above methods. This invention can be used to protect cells from apoptosis or to mediate or enhance apoptosis in cells, in various physio-pathological conditions.

INTERNATIONAL SEARCH REPORT

International Application No
PCT/EP 01/08096

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 A61K38/17 A61P43/00

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)
IPC 7 A61K

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, PAJ, MEDLINE, CHEM ABS Data, BIOSIS

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 98 17686 A (MAHFOUDI ABDERRAHIM ;FOURNIER ALAIN (FR); BRANELLEC DIDIER (FR); M) 30 April 1998 (1998-04-30) cited in the application	11
A	page 7, line 22 -page 8, line 20; claims 8,19,20; examples 7,9 page 10, line 6 - line 19	1,16-18
A	WO 97 16459 A (LEROUX AUDE ;DENEFLÉ PATRICE (FR); BRANELLEC DIDIER (FR); RHONE PO) 9 May 1997 (1997-05-09) page 1, line 2 - line 8; claims 1,4 page 3, line 1 - line 14 page 5, line 12 - line 25	1,10,16
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Further documents are listed in the continuation of box C.

Patent family members are listed in 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.
- *G* document member of the same patent family

Date of the actual completion of the international search

17 July 2002

Date of mailing of the international search report

24/07/2002

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INTERNATIONAL SEARCH REPORT

International Application No

PCT/EP 01/08096

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	<p>DATABASE BIOSIS 'Online! BIOSCIENCES INFORMATION SERVICE, PHILADELPHIA, PA, US; MAHFOUDI, ABDERRAHIM (1) ET AL: "Identification of a repressor domain in the growth arrest homeobox gene (GAX) that interacts with the nuclear antigen Ki." retrieved from STN XP002034391 abstract & CIRCULATION, (1996) VOL. 94, NO. 8 SUPPL., PP. I472. MEETING INFO.: 69TH SCIENTIFIC SESSIONS OF THE AMERICAN HEART ASSOCIATION NEW ORLEANS, LOUISIANA, USA NOVEMBER 10-13, 1996 ,</p> <p style="text-align: center;">-----</p>	1,3,11

INTERNATIONAL SEARCH REPORT

International application No.
PCT/EP 01/08096

Box I Observations where certain claims were found unsearchable (Continuation of item 1 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. Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:

Although claim 7 (partly) is 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/composition.
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 II Observations where unity of invention is lacking (Continuation of item 2 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 all searchable claims.
2. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers 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.
- No protest accompanied the payment of additional search fees.

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/EP 01/08096

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