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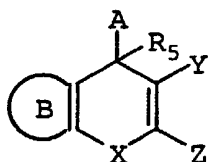
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(54) Title: SUBSTITUTED 4H-CHROMENE AND ANALOGS AS ACTIVATORS OF CASPASES AND INDUCERS OF APOPTOSIS AND THE USE THEREOF



(I)

(57) Abstract: The present invention is directed to substituted 4H-chromene and analogs thereof, represented by general Formula (I), wherein A, B, X, Y, Z and R₅ are defined herein. The present invention also relates to the discovery that compounds having Formula (I) are activators of caspases and inducers of apoptosis. Therefore, the activators of caspases and inducers of apoptosis of this invention can be used to induce cell death in a variety of clinical conditions in which uncontrolled growth and spread of abnormal cells occurs.

INTERNATIONAL SEARCH REPORT

In ternational Application No
PCT/US 00/30374

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 C07D311/58 C07D491/04 C07D405/04 C07D407/04 C07D409/04
A61K31/352 C07D311/92 A61P35/00

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)

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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)

CHEM ABS Data, EPO-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	EP 0 619 314 A (LILLY) 12 October 1994 (1994-10-12) cited in the application the whole document ---	1, 17, 26, 73
A	CHEMICAL ABSTRACTS, vol. 125, no. 21, 1996 Columbus, Ohio, US; abstract no. 265467p, WIERNICKI, TODD: "INHIBITION OF VASCULAR SMOOTH MUSCLE CELL PROLIFERATION" page 94; XP002168594 abstract & J. PHARMACOL. EXP. THER., vol. 278, no. 3, 1996, pages 1452-9, USA --- -/--	1-17, 73-78

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

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In ternational Application No

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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.
A	CHEMICAL ABSTRACTS, vol. 99, no. 27, 1983 Columbus, Ohio, US; abstract no. 212393z, SHARANIN, YU.A.: "SYNTHESIS OF 2-AMINO-4H-CHROMENES." page 631; XP002168595 abstract & ZH. ORG. KHIM., vol. 19, no. 8, 1983, pages 1782-4, USSR -----	73

INTERNATIONAL SEARCH REPORT

Information on patent family members

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		JP 6321929 A	22-11-1994
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