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(54) Title: SPECIFIC KINASE INHIBITORS

(57) Abstract: Resorcylic acid lactones having a C5-C6 cis double bond and a ketone at C7 and other compounds capable of Michael adduct formation are potent and stable inhibitors of a subset of protein kinases having a specific cysteine residue in the ATP binding site.



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**INTERNATIONAL SEARCH REPORT**

International application No.

PCT/US05/34537

**A. CLASSIFICATION OF SUBJECT MATTER**  
 IPC: **C07D**  
 267/22,281/18,291/00,337/16,487/00,513/00,245/00,225/04,487/00,327/00,343/00,411/00,497/00,339/00,341/00,409/00,495/00,337/12,337/16,409/00,405/00,313/00,407/00,493/00,323/00,321/00,321/10,321/12,323/00

USPC: 540/455,460,461;549/10,11,12,346,347,348  
 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)  
 U.S. : 540/455,460,461;549/10,11,12,346,347,348

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 practicable, search terms used)  
 STN:REGISTRY:CAPLUS:MARPAT:EAST

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X,P	Vongvilai et al. Ketene acetal and spiroacetal constituents of the marine fungus aigialus parvus BCC 5311, J. Nat. Prod., 2004, Vol. 67, pages 457-460.	1-5,7-9,12-17,19-21,24-74
X	Ellestad et al. New zearalenone related macrolides and isocoumarins from an unidentified fungus, J. Org. Chem., 1978, Vol. 43, pages 2339-2343.	1-5,7-9,12-17,19-21,24-74
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X	Williams et al. Ro 09-2210 exhibits potent anti-proliferative effects on activated T cells by selectively blocking MKK activity, Biochemistry, 1998, Vol. 37, pages 9579-9585.	6,18
X,P	US 2004/0224936 A (CHIBA et al) 11 November 2004 (11.11.2004), pages 6, 35-72.	1-5,7-9,12-17,19-21,24-74
X	US 5,795,910 A (GIESE et al) 18 August 1998 (18.08.1998), columns 4-6, 13.	1-5,7-9,12-17,19-21,24-74
X	WO 02/48135 A1 (TSUCHIYA et al) 20 June 2002 (20.06.2002), pages 7,14-15.	1-5,7-9,12-17,19-21,24-74

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