

Title (en)
PROTEIN KINASE C INHIBITION AND NOVEL COMPOUND BALANOL.

Title (de)
HEMMUNG DER PROTEIN KINASE C UND NEUE VERBINDUNG BALANOL.

Title (fr)
INHIBITION DE PROTEINE-KINASE C ET NOUVEAU COMPOSE APPELE BALANOL.

Publication
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Application
EP 92919060 A 19920821

Priority
• US 9207124 W 19920821
• US 74863291 A 19910822

Abstract (en)
[origin: WO9303730A1] Balanol, which is derived from fungi of the genus Verticillium, especially the fungus Verticillium balanoides, is provided. Balanol, when substantially pure, is soluble in dimethyl sulfoxide, water, and methanol; insoluble in ethyl acetate and chloroform; gives a positive color reaction with polymolybdic acid, ninhydrin reagent, and ferric chloride; is negative with Dragendorff's reagent and Iodoplatinate spray; has an R_f value of approximately 0.58 with silica gel thin layer chromatography with n-butanol/acetic acid/water at a ratio of 4:1:1 respectively; and has a molecular weight of approximately 550. Compounds of the invention are useful for inhibiting protein kinase C and treating conditions related to, or affected by inhibition of protein kinase C, particularly cancer tumors, inflammatory disease, reperfusion injury, and cardiac dysfunctions related to reperfusion injury.

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IPC 8 full level
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Citation (search report)
• [X] W.A.KÖNIG ET AL.: "Konstitution von Oghiocordin, einem Antibioticum mit antifungischen Eigenschaften", CHEM.BER., vol. 113, no. 6, pages 2221 - 26
• [T] C.BOROS ET AL.: "Comparision of Balanol from Verticillium balanoides and Ophiocordin from Cordyceps ophioglossoides", J.ANTIBIOT., vol. 47, no. 9, pages 1010 - 16
• See references of WO 9303730A1

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