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

EP 0664706 A1 19950802 (EN)

Application

EP 92919060 A 19920821

Priority

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- 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 Rf 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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