Title (en)

PROTEINS FOR CANCER CELL SPECIFIC INDUCTION OF APOPTOSIS AND METHOD FOR ISOLATION THEREOF

Title (de)

PROTEINE ZUR KREBSZELLSPEZIFISCHEN INDUKTION VON APOPTOSE UND VERFAHREN FÜR IHRE ISOLIERUNG

Title (fr)

PROTEINES DESTINEES A PROVOQUER L'APOPTOSE SPECIFIQUE DE CELLULES CANCEREUSES ET PROCEDE POUR ISOLER CES PROTEINES

Publication

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Application

EP 98964142 A 19981218

Priority

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- US 99343297 A 19971218

Abstract (en)

[origin: WO9931135A1] The present invention provides the methods to isolate the proteins specifically induced apoptosis (programmed cell death) in prostate cancer cells (LNCAP), leukemia cells (HL-60), and breast cancer cells (MCF-70), but without effect in normal human lung fibroblast cells (CCD 39 Lu). P-1 has no effect on breast cancer cells. Five proteins have been isolated from the conditioned media of culture cells: (1) Apogen P-1: the proteins (Apogen P-1a, Apogen P-1b and Apogen P-1c) isolated from the conditioned medium of XC cells are able to induce apoptosis in prostate cancer cells (LNCAP) without effect in normal human lung fibroblast (CCD 39 Lu), colon cancer (T84), breast cancer (MCF-7) and leukemia (HL-60) cells. (2) Apogen P-2: the protein isolated from the conditioned medium of C3H1OT1/2 cells is able to induce apoptosis in prostate cancer cells (LNCAP) and breast cancer (MCF-7) without effect in normal human lung fibroblast (CCD 39 Lu) and colon cancer (T84) cells. (3) Apogen L: the protein isolated from the conditioned medium of XC cells is able to induce apoptosis in leukemia cells (HL-60), and breast cancer (MCF-7) without effect in normal human lung fibroblast (CCD 39 Lu), colon cancer (T84) and prostate cancer (LNCAP) cells. The invention may lead to the discovery of a novel class of anticancer drug that aims at prostate cancer, breast cancer, leukemia and other cancers by inducing apoptosis in cancer cells without affecting normal cells.

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