

Title (en)

A cDNA ENCODING C6 \$g(b)-CHEMOKINE LEUKOTACTIN-1(Lkn-1) ISOLATED FROM HUMAN

Title (de)

EINE AUS DEM MENSCHEN ISOLIERTE cDNA, DIE FÜR C6-BETA-CHEMOKIN LEUKOTAKTIN-1 (LKN-1) KODIERT

Title (fr)

ADNc CODANT UNE C6 \$g(b)-CHEMOKINE LEUKOTACTINE-1 (Lkn-1) ISOLEE D'UN ORGANISME HUMAIN

Publication

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Application

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Priority

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Abstract (en)

[origin: WO9928473A1] The present invention relates to a cDNA coding for a novel protein which belongs to C6 beta -chemokines and attracts subsets of peripheral blood leukocytes, and a process for preparing the said protein by employing expression vector therefor. Open reading frame of the Lkn-1 cDNA encodes 113 amino acids containing a signal peptide of 21 amino acids, and molecular weight of mature protein consisting of 92 amino acids among them is supposed to be 10,162 dalton. A recombinant Lkn-1 which was expressed in E. coli or insect cell employing the said Lkn-1 cDNA and purified, inhibited colony formation and cell proliferation significantly, attracted neutrophils, monocytes and lymphocytes to cause chemotaxis, and bound to CCR1 and CCR3 receptors. Accordingly, it was determined that the recombinant Lkn-1 protein can be used as a potential drug for antibody production, the treatment during HIV-1 infection, the protection of bone marrow stem cells during chemotherapy or radiotherapy and the inhibition of leukemia, etc.

IPC 1-7

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IPC 8 full level

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