Active Human CCL15

Cat. No. CCL15-107H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	It is a synthetic Protein
Species	Human
Description	Leukotactin-1 (Lkn-1), also known as Macrophage inflammatory protein 1 delta (MIP-1), MIP-5, HCC-2, and NCC-3, is a novel human CC chemokine whose gene was mapped to human chromosome 17 adjacent to the HCC-1 gene. Lkn-1, together with mouse C10, mouse MIP-1 and human MPIF-1, constitute a subgroup of CC chemokines which contain six instead of four conserved cysteine residues. The two additional cysteine residues in Lkn-1 have been shown to form a third disulfide bond. Lkn-1 cDNA encodes a 113 amino acid precursor protein with a putative signal peptide of 21 aa residues that is cleaved to generate a 92 amino acid mature protein. In recombinant Lkn-1 preparations produced in insect cells and in yeast, amino-terminal truncations were found to have occurred. The major forms of Lkn-1 secreted by insect cells and yeast were reported to be proteins of 68 and 66 amino acids, respectively. The full length and the amino-terminal truncated forms of human Lkn-1 have been shown to be potent chemoattractants for monocytes and T-lymphocytes. These proteins can also chemoattract eosinophils and have been shown to induce calcium flux in human CCR-1 transfected cells. Additionally, Lkn-1 can suppress colony formation by human granulocyte-macrophage, erythroid, and multipotential progenitor cells stimulated by combinations of growth factors.
Form	Lyophilized

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Bio-activity	Activity measured by ability of chemokine to chemoattract THP-1 cells. ED50 for this measurement is generally 2-4 ng/ml.
Applications	Activity Assay
Storage	Product should be stored at -20°C. Aliquot to avoid freeze/thaw cycles
Reconstitution	Recommended reconstitution in sterile phosphate buffered saline which contains at least 0.1% human or bovine serum albumin to prepare a stocksolution of no less than 20 µg/ml and vortex thoroughly.

GENE INFORMATION

Gene Name	CCL15 chemokine (C-C motif) ligand 15 [Homo sapiens]
Official Symbol	CCL15
Synonyms	CCL15; chemokine (C-C motif) ligand 15; SCYA15, small inducible cytokine subfamily A (Cys Cys), member 15; C-C motif chemokine 15; CC chemokine 3; chemokine CC 2; HCC 2; HMRP 2B; leukotactin 1; Lkn 1; macrophage inflammatory protein 5; MIP 1 delta; MIP 1d; MIP 5; NCC 3; SCYL3; MIP-1 delta; chemokine CC-2; new CC chemokine 3; small-inducible cytokine A15; small inducible cytokine subfamily A (Cys-Cys), member 15; LKN1; NCC3; SY15; HCC-2; LKN-1; MIP-5; NCC-3; MIP-1D; MRP-2B; SCYA15; HMRP-2B;
Gene ID	6359
mRNA Refseq	NM_032965
Protein Refseq	NP_116741

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MIM	601393
UniProt ID	Q16663
Chromosome Location	17q11.2
Pathway	Chemokine signaling pathway, organism-specific biosystem; Chemokine signaling pathway, conserved biosystem; Cytokine-cytokine receptor interaction, organism-specific biosystem; Cytokine-cytokine receptor interaction, conserved biosystem;
Function	chemoattractant activity; chemokine activity; heparin binding; receptor binding;

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