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32-1974: MIP 5 (68 a.a.) Recombinant Protein

Alternative Name :	Small inducible cytokine A15 precursor,CCL15,Macrophage inflammatory protein 5,MIP-5,MIP5,Chemokine CC-2,HCC-2,NCC-3,MIP- 1 delta,Leukotactin-1,LKN-1,Mrp-2b,C-C motif chemokine 15.

Description

Source : Escherichia Coli. Macrophage Inflammatory Protein-5 Human Recombinant produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 68 amino acids and having a molecular mass of 7.4kDa. The MIP5 is purified by proprietary chromatographic techniques. CCL15, a new human CC chemokine, was isolated from a human fetal spleen cDNA library. CCL15 cDNA encodes a predicted 113 amino acid (aa) protein containing a putative signal peptide of 21 amino acids that is cleaved to generate a 92 aa residue mature protein. Within the CC family members, human CCL15 shares 45%, 44%, 35%, and 30% aa homology with mouse C10, human MPIF-1, human HCC-1, and mouse MIP-1, respectively. The gene for MIP-5 is found on chromosome 17 where the genes for most of the human CC chemokines are located. Human CCL15 is expressed in T and B lymphocytes, NK cells, monocytes and monocyte-derived dendritic cells. Human MIP-5 is chemotactic for T cells and monocytes and has been shown to induce calcium flux in human CCR-1-transfected cells.

Product Info

Amount :	25 µg
Purification :	Greater than 97.0% as determined by:(a) Analysis by RP-HPLC.(b) Analysis by SDS-PAGE.
Content :	MIP5 was lyophilized from a 0.2µm filtered concentrated solution containing PBS, pH-7.4.
Storage condition :	Lyophilized MIP-5 although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution CCL15 should be stored at 4°C between 2-7 days and for future use below -18°C.For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).Please prevent freeze-thaw cycles.
Amino Acid :	SFHFAADCCT SYISQSIPCS LMKSYFETSS ECSKPGVIFL TKKGRQVCAK PSGPGVQDCM KKLKPYSI.

Application Note

It is recommended to reconstitute the lyophilized MIP5 in sterile 18MÃ□Â©-cm H2O not less than 100Ã□Âµg/ml, which can then be further diluted to other aqueous solutions. Measured by its ability to chemoattract THP-1 human acute monocytic leukemia cells. The ED50 for this effect is typically 2-4ng/ml.