
Product Data Sheet

Product Name: MIP 5 (68 a.a) Human
 Cat. No.: GP21193
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped at Room temp.
Synonyms	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.		
Amino Acid Sequence	SFHFAADCCT SYISQSIPCS LMKSYFETSS ECKPGVIFL TTKGRQVCAK PSGPGVQDCM KKLKPYSI.		
Solubility	It is recommended to reconstitute the lyophilized MIP5 in sterile 18MΩ-cm H ₂ O not less than 100μg/ml, which can then be further diluted to other aqueous solutions.		
Formulation	MIP5 was lyophilized from a 0.2μm filtered concentrated solution containing PBS, pH-7.4.		

Introduction

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.

Biological Activity

Measured by its ability to chemoattract THP-1 human acute monocytic leukemia cells.

Caution: Product has not been fully validated for medical applications. For research use only.

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The ED50 for this effect is typically 2-4ng/ml.

Stability

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.

Background

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.

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