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## Product Data Sheet

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Product Name: MIP 5 Human  
 Cat. No.: GP21192  
 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	QFINDAETELMMSKLPLENPVVLNSFHFAADCCTSYISQSIPCSLMKSYFETSSECSKP GVIFLTKKGRQVCAKPSGPGVQDCMKKLPYSI.		
Solubility	It is recommended to reconstitute the lyophilized MIP5 in sterile 18MΩ-cm H2O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.		
Formulation	MIP5 was lyophilized from a concentrated (1mg/ml) solution containing 20mM PBS pH-7.4 and 100mM NaCl.		

### 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

Determined by its ability to chemoattract human T-lymphocytes using a concentration

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

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range of 1-10 ng/ml corresponding to a Specific Activity of 100,000-1,000,000IU/mg.

### Stability

Lyophilized MIP-5 although stable at room temperature for 3 weeks, should be stored desiccated below  $-18^{\circ}\text{C}$ . Upon reconstitution CCL15 should be stored at  $4^{\circ}\text{C}$  between 2-7 days and for future use below  $-18^{\circ}\text{C}$ . 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 92 amino acids and having a molecular mass of 10.1 kDa. The MIP5 is purified by proprietary chromatographic techniques.

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