

Recombinant Human Macrophage Inflammatory Protein-5 (rh MIP-5 / CCL15)

Synonyms: Small inducible cytokine A15 precursor, Chemokine CC-2, HCC-2, NCC-3, MIP- 1 delta, Leukotactin-1, LKN-1, Mrp-2b.

Introduction: CCL15, a new human CC chemokine, was isolated from a human fetal spleen cDNA library. MIP-5 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 MIP-5 shares 45%, 44%, 35%, and 30% aa homology with mouse C10, human MIP1-1, human HCC-1, and mouse MIP-1 γ , respectively. The gene for MIP-5 is found on chromosome 17 where the genes for most of the human CC chemokines are located. Human MIP-5 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.

Description: rh MIP-5 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 MIP-5 is purified by proprietary chromatographic techniques.

Source: *Escherichia Coli*.

Physical Appearance: Sterile filtered white lyophilized (freeze-dried) powder.

Formulation: MIP5 was lyophilized from a concentrated (1mg/ml) solution containing 20mM PBS pH-7.4 and 100mM NaCl.

The aliquots/samples of 1 μ g contain Trehalose 5% (w/vol) for better recovery

Solubility: It is recommended to reconstitute the lyophilized rh MIP-5 in sterile H₂O not less than 100 μ g/ml, which can then be further diluted to other aqueous solutions.

Stability: Lyophilized rh MIP-5, although stable at room temperature for 3 weeks, should be stored desiccated below -18° C. Upon reconstitution rh MIP-5 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.

Purity: Greater than 97.0% as determined by RP-HPLC and by SDS-PAGE.

Amino acid sequence:

QFINDAETELMMSKLPLENPVVLNSFHFAADCCTSYISQSIPLMKSYPFETSSECSKP
GVIFLTKKGRQVCAKPSGPGVQDCMKLKPYSI.

Biological Activity: Determined by its ability to chemoattract human T-lymphocytes using a concentration range of 1 -10 ng/ml.

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<i>small</i>	5 μ g	Cat.N°	11343860
<i>medium</i>	25 μ g	Cat.N°	11343864
<i>large</i>	100 μ g	Cat.N°	11343866

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