

Macrophage Inflammatory Protein 5

Human, Recombinant (rHuMIP-5/CCL15)

Expressed in *E. coli*

Cat. No. CRP08107

Lot. No. (See product label)

PRODUCT INFORMATION

Description: 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 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 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.

Amino-Acid Sequence: 92aa, non-glycosylated

M. W. : 10.1 kDa

Recombinant: Expressed in *E. coli*

Purity: >97% by SDS-PAGE and HPLC analyses.

Formulation: Lyophilized from a 0.2mm filtered concentrated (1.0mg/ml) solution in 20mM PB, pH 7.4, 100mM NaCl.

Specific Activity: Fully biologically active when compared to standard. Determined by its ability to chemoattract human T lymphocytes using a concentration range of 1.0 -10.0 ng/ml.

Endotoxin: Less than 1EU/mg of rHuMIP-5/CCL15 as determined by LAL method.

Reconstitution: We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in sterile distilled water or aqueous buffer containing 0.1% BSA to a concentration of 0.1-1.0 mg/ml. Stock solutions should be apportioned into working aliquots and stored at $\leq -20^{\circ}\text{C}$. Further dilutions should be made in appropriate buffered solutions.

Storage: This lyophilized preparation is stable for several weeks at 2-8 $^{\circ}\text{C}$, but should be kept at -20 $^{\circ}\text{C}$ for long term storage, preferably desiccated. Upon reconstitution, the preparation is stable for up to one week at 2-8 $^{\circ}\text{C}$. For maximal stability, apportion the reconstituted preparation into working aliquots and store at -20 $^{\circ}\text{C}$ to -70 $^{\circ}\text{C}$. Avoid repeated freeze/thaw cycles.

GENE INFORMATION

Gene Name: [CCL15](#)

Synonyms: LKN1;NCC3;SY15;HCC-2;Lkn-1;MIP-5;NCC-3; SCYL3;MIP-1d;SCYA15;HMRP-2B;chemokine (C-C motif) ligand 15; CCL15_HUMAN; MIP5; C-C motif chemokine 15 Precursor; Small-inducible cytokine A15;Macrophage inflammatory protein 5;MIP-5;Chemokine CC-2; MIP-1delta; Chemokine CC-2;Leukotactin-1;Mrp-2b; small inducible cytokine subfamily A (Cys-Cys), member 15.

UniProt ID: Q16663

mRNA Refseq: [NM_004167](#)

Protein Refseq: [NP_004158](#)

MIM: [601393](#)

GenID: [6359](#)

Chromosome Location: 17q11.2

Pathway: Cytokine-cytokine receptor interaction

Function: chemoattractant activity;chemokine activity; heparin binding; heparin binding; signal transducer activity.

REFERENCES

1. Pardigol et al. HCC-2, a human chemokine: gene structure, expression pattern, and biological activity. Proc. Nat. Acad. Sci. 95: 6308-6313, 1998.
2. Youn et al. Molecular cloning of leukotactin-1: a novel human beta-chemokine, a chemoattractant for neutrophils, monocytes, and lymphocytes, and a potent agonist at CC chemokine receptors 1 and 3. J. Immun. 159: 5201-5205, 1997.
3. Coulin et al. Characterization of macrophage inflammatory protein-5/human CC cytokine-2, a member of the macrophage-inflammatory-protein family of chemokines. Europ. J. Biochem. 248: 507-515, 1997.

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