Active Recombinant Human CCL15 Protein (92 aa)

Cat. No. CCL15-326C **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human MIP-5/CCL15 (rhMIP-5/CCL15) produced in E. coli is a single non-glycosylated polypeptide chain containing 92 amino acids. A fully biologically active molecule, rhMIP-5/CCL15 has a molecular mass of 10.2 kDa analyzed by reducing SDS-PAGE and is obtained by chromatographic techniques.
Species	Human
Source	E.coli
ProteinLength	92
Description	Macrophage Inflammatory Protein-5 (MIP-5/CCL15) is a chemokine originally identified in the human hemofiltrate, thus it is also named Hemofiltrate CC Chemokine-2 (HCC-2). MIP-5 belongs to the CCL chemokine family, and its receptors are G-protein coupled receptors CCR1 and CCR3, with CCR1 being the major one. MIP-5 is mainly expressed in heart and skeletal muscle, and CCR1 is expressed on Th1 and Th2 cells in human cord blood lymphocytes. In vivo, MIP-5 promotes the accumulation of immature myeloid cells and the expansion of metastatic foci in the lever. MIP-5 contributes to severe asthma, sarcoidosis, and atherosclerosis;however, MIP-5 can also inhibit stem cell proliferation, implicating its therapeutic potential as an alternative to high dose chemotherapy.
Form	Sterile Filtered White lyophilized (freeze-dried) powder.
Bio-activity	ED50 < 2

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	μg/mL, measured by the FLIPR assay using CHO cells transfected with human CCR1, the receptor of human CCL15, corresponding to a specific activity of > 500 units/mg.
Molecular Mass	10.2 kDa, observed by reducing SDS-PAGE.
AA Sequence	QFTNDAETELMMSKLPLENPVVLNSFHFAADCCTSYISQSIPCSLMKSYFETSSECS KPGVIFLTKKGRQVCAKPSGPGVQDCMKKLKPYSI
Endotoxin	< 0.2 EU/μg, determined by LAL method.
Purity	> 95% by SDS-PAGE analysis.
Storage	Lyophilized recombinant human MIP-5/CCL15 (rhMIP-5/CCL15) remains stable up to 6 months at -80 centigrade from date of receipt. Upon reconstitution, rhMIP-5/CCL15 remains stable up to 2 weeks at 4 centigrade or up to 3 months at -20 centigrade.
Storage Buffer	Lyophilized after extensive dialysis against PBS.
Reconstitution	Reconstituted in ddH2O at 100 μg/mL.

GENE INFORMATION

Gene Name	CCL15 chemokine (C-C motif) ligand 15 [Homo sapiens]
Official Symbol	CCL15
Synonyms	CCL15; chemokine (C-C motif) ligand 15; SCYA15, small inducible cytokine subfamily A (Cys Cys), member 15; C-C motif chemokine 15; CC chemokine 3; chemokine CC 2; HCC 2; HMRP 2B; leukotactin 1; Lkn 1; macrophage inflammatory protein 5; MIP 1 delta; MIP 1d; MIP 5; NCC 3; SCYL3; MIP-1 delta; chemokine CC-2; new CC

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	chemokine 3; small-inducible cytokine A15; small inducible cytokine subfamily A (Cys-Cys), member 15; LKN1; NCC3; SY15; HCC-2; LKN-1; MIP-5; NCC-3; MIP-1D; MRP-2B; SCYA15; HMRP-2B;
Gene ID	6359
mRNA Refseq	NM_032965
Protein Refseq	NP_116741
MIM	601393
UniProt ID	Q16663

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