

Active Recombinant Human CCL23 Protein (99 aa)

Cat. No. CCL23-072C **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human CCL23 Protein without tag was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	99
Description	MIP-3/CCL23 is a CC chemokine that signals through the CCR1 receptor. MIP-3 chemoattracts monocytes, resting T-lymphocytes and neutrophils, but does not chemoattract activated lymphocytes. Additionally, MIP-3 has been shown to inhibit colony formation of bone marrow myeloid immature progenitors. Alternative splicing of the MPIF1 gene results in two mRNAs that encode a short (CKβ8) and a long (CKβ81) isoform of the chemokine. CKβ8 cDNA encodes a 120 amino acid (aa) residue precursor protein with a putative 21 aa residue signal peptide that is cleaved to generate a 99 aa residue mature CKβ8 (aa 22 120). Additional N terminal processing of the 99 aa residue variant can generate a 75 aa residue CKβ8 (aa 46 120) that is significantly more active than the 99 aa residue variant.
Form	Sterile Filtered White lyophilized (freeze-dried) powder.
Bio-activity	Fully biologically active when compared to standard. Determined by its ability to chemoattract human T cell population using a concentration range of 10.0 -50.0 ng/mL, corresponding to a Specific Activity of 2×10^4 IU/mg.

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Molecular Mass	11.3 kDa, a single, non-glycosylated polypeptide chain containing 99 amino acids.
AA Sequence	RVTKDAETEFMMSKLPLENPVLLDRFHATSADCCISYTPRSIPCSLLESYFETNSECS KPGVIFLTKKGRRFCANPSDKQVQVCMRMLKLDTRIKTRKN
Endotoxin	Less than 1 EU/mg of rHuMIP-3/CCL23 as determined by LAL method.
Purity	>97% by SDS-PAGE and HPLC analyses.
Storage	This lyophilized preparation is stable at 2-8 centigrade, but should be kept at -20 centigrade for long term storage, preferably desiccated. Upon reconstitution, the preparation is stable for up to one week at 2-8 centigrade. For maximal stability, apportion the reconstituted preparation into working aliquots and store at -20 to -70 centigrade. Avoid repeated freeze/thaw cycles.
Storage Buffer	Lyophilized from a 0.2mm filtered concentrated solution in 20mM PB, pH 7.4, 150mM NaCl.
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 < -20 centigrade. Further dilutions should be made in appropriate buffered solutions.

GENE INFORMATION

Gene Name	CCL23 chemokine (C-C motif) ligand 23 [Homo sapiens]
Official Symbol	CCL23
Synonyms	CCL23; chemokine (C-C motif) ligand 23; SCYA23, small inducible cytokine subfamily

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A (Cys Cys), member 23; C-C motif chemokine 23; Ckb 8; CKb8; MIP 3; MPIF 1; hmrp-2a; C6 beta-chemokine; small-inducible cytokine A23; macrophage inflammatory protein 3; myeloid progenitor inhibitory factor 1; small inducible cytokine subfamily A (Cys-Cys), member 23; MIP3; Ckb-8; MIP-3; MPIF-1; SCYA23; Ckb-8-1; CK-BETA-8;

Gene ID	6368
mRNA Refseq	NM_005064
Protein Refseq	NP_005055
MIM	602494
UniProt ID	P55773