CCL23

Recombinant Human Chemokine (C-C motif) Ligand 23/Macrophage Inflammatory Protein 3

Catalog No.	CRM407A	**Quantity:**	5 µg
	CRM407B		20 µg
	CRM407C		1 mg

Alternate Names: Macrophage Inflammatory Protein 3, MPIF-1, Ck-beta8

Description: Recombinant Human MIP-3/CCL23 is a single, non-glycosylated polypeptide chain containing 99 amino acids.
Background: Chemokine (C-C motif) Ligand 23/Macrophage Inflammatory Protein 3 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 (CKbeta8) and a long (CKbeta81) isoform of the chemokine. CKbeta8 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 CKbeta8 (aa 22 120). Additional N terminal processing of the 99 aa residue variant can generate a 75 aa residue CKbeta8 (aa 46 120) that is significantly more active than the 99 aa residue variant.

Gene ID: 6368

Source: *E. coli*

Molecular Weight: ~11.4 kDa

Formulation: Lyophilized from a 0.2 µm filtered concentrated (1.0 mg/mL) solution in 20 mM PB, pH 7.4 + 150 mM NaCl.

Purity: >97% by SDS-PAGE and HPLC

Endotoxin Level: Less than 1EU/µg of rHuMIP-3/CCL23 as determined by LAL method.

Biological Activity: Fully biologically active when compared to standard. The biological activity determined by a chemotaxis bioassay using human T-lymphocytes is in a concentration of 10-50 ng/ml.

Amino Acid Sequence: RVTKDAETEF MMSKLPLENP VLLDRFHATS ADCCISYTPR SIPCSLLESY FETNSECSKP GVIFLTKKGR RFCANPSDKQ VQVCMRMLKL DTRIKTRKN

Reconstitution: **Centrifuge vial prior to opening.** Add sterile distilled water or aqueous buffer to a concentration of 0.1-1.0 mg/mL. Further dilutions should be made in appropriate buffered solutions.

Storage & Stability: Stable at 2-8°C, but best kept desiccated -20°C. Upon reconstitution, stable for up to 1 week at 2-8°C. For longer term, store in working aliquots below -20°C. **Avoid repeated freeze/thaw cycles.**

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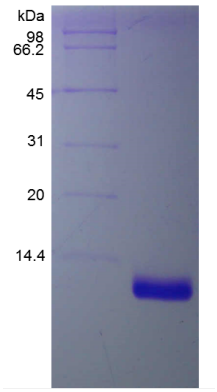
SDS-PAGE



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