

DATASHEET
Version 20181206**MIP-3/CCL23, Human****Cat. No.:** Z02845-1**Size:** 1.0 mg**Synonyms:** MIP-3/CCL23, Human;**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 (CK β 8) and a long (CK β 81) isoform of the chemokine. CK β 8 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 CK β 8 (aa 22-120). Additional N terminal processing of the 99 aa residue variant can generate a 75 aa residue CK β 8 (aa 46-120) that is significantly more active than the 99 aa residue variant.

Amino Acid Sequence:

00001 RVTKDAETEF MMSKLPLENP VLLDRFHATS ADCCISYTPR
00041 SIPCSLLESY FETNSECSKP GVIFLTKKGR RFCANPSDKQ
00081 VQVCMRMLKL DTIRKTRKN

Source: *E. coli***Species:** Human

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.

Molecular Weight: Approximately 11.4 kDa, a single, non-glycosylated polypeptide chain containing 99 amino acids.

Formulation: Lyophilized from a 0.2 μ m filtered concentrated solution in 20 mM PB, pH 7.4, 150 mM NaCl.

Appearance: Sterile Filtered White lyophilized (freeze-dried) powder.

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 °C. Further dilutions should be made in appropriate buffered solutions.

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

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

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