

PRODUCT DATA SHEET



Bioworld Technology, Inc.

Recombinant Human MIP-3/CCL23 (rHu MIP-3/CCL23)

Catalog Number: PR1097

Source: Escherichia coli.

Quantity: 5µg/20µg/1.0mg

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.

Molecular Weight:

11.3 kDa, a single, non-glycosylated polypeptide chain containing 99 amino acids.

Purity:

>97% by SDS-PAGE and HPLC analyses.

Biological 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 $\square 2 \times 10^4$ IU/mg.

Physical Appearance:

Sterile Filtered White lyophilized (freeze-dried) powder.

Formulation:

Lyophilized from a 0.2mm filtered concentrated solution in 20mM PB, pH 7.4, 150mM NaCl.

AA Sequence:

R V T K D A E T E F M M S K L P L E N P V L L D R F H
A T S A D C C I S Y T P R S I P C S L L E S Y F E T N S E
C S K P G V I F L T K K G R R F C A N P S D K Q V Q V
C M R M L K L D T R I K T R K N

Endotoxin:

Less than 1EU/mg of rHuMIP-3/CCL23 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 <-20°C. Further dilutions should be made in appropriate buffered solutions.

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.

Usage:

This material is offered by USA Bioworld biotech for research, laboratory or further evaluation purposes. NOT FOR HUMAN USE. Made in China

MADE IN CHINA

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