

Rev03
Update: Dec,14,2021

DATASHEET

MIP-3/CCL23, Human

Cat. No.: Z02845

Product Introduction

Species	Human
Protein Construction	MIP-3 (Arg22-Asn120) Accession # P55773
Purity	> 97% as analyzed by SDS-PAGE > 97% as analyzed by HPLC
Endotoxin Level	< 1 EU/ μ g of protein 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 10.0-50.0 ng/ml.
Expression System	E. coli
Theoretical Molecular Weight	11.4 kDa
Formulation	Lyophilized from a 0.2 μ m filtered solution in 20 mM PB, pH 7.4, 150 mM NaCl.
Reconstitution	It is recommended that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute the lyophilized powder in sterile distilled water or aqueous buffer containing 0.1 % BSA to a concentration of 0.1-1.0 mg/ml.
Storage & Stability	Upon receiving, this product remains stable for up to 6 months at -70°C or -20°C. Upon reconstitution, the product should be stable for up to 1 week at 4°C or up to 3 months at -20°C. Avoid repeated freeze-thaw cycles.

Background

Target Background : 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.

Synonyms : SCYA23; Ckb-8; MPIF-1; MIP-3; CK β 8

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