

PRODUCT DATA SHEET



Bioworld Technology, Inc.

Recombinant Human MIP-1 alpha (CCL3)

□rHu MIP-1 alpha (CCL3)□

Catalog Number: PR1094

Source: Escherichia coli.

Quantity: 5µg/20µg/1.0mg

Description

Both MIP-1 alpha and MIP-1 beta are structurally and functionally related CC chemokines. They participate in the host response to invading bacterial, viral, parasite and fungal pathogens by regulating the trafficking and activation state of selected subgroups of inflammatory cells e.g. macrophages, lymphocytes and NK cells. While both MIP-1 alpha and MIP-1 beta exert similar effects on monocytes their effect on lymphocytes differ; with MIP-1 alpha selectively attracting CD8+ lymphocytes and MIP-1 beta selectively attracting CD4+ lymphocytes. Additionally, MIP-1 alpha and MIP-1 beta have also been shown to be potent chemoattractants for B cells, eosinophils and dendritic cells. Both human and murine MIP-1 alpha and MIP-1 beta are active on human and murine hematopoietic cells.

Molecular Weight:

7.8 kDa protein containing 69 amino acid residues, including the four highly conserved cysteine residues present in CC chemokines.

Purity:

>96% by SDS-PAGE and HPLC analyses.

Biological Activity:

Determined by its ability to chemoattract human monocytes using a concentration range of 1.0-10.0 ng/ml, corresponding to a Specific Activity of □1 x 10⁵ 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, 100mM NaCl.

AA Sequence:

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

Endotoxin:

Less than 1EU/mg of rHu MIP-1 alpha /CCL3 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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