

Rev03
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DATASHEET

MIP-3 α /CCL20, Human

Cat. No.: Z03272

Product Introduction

Species	Human
Protein Construction	MIP-3α (Ala27-Met96) Accession # P78556
Purity	> 95% as analyzed by SDS-PAGE
Endotoxin Level	< 0.2 EU/ μ g of protein by gel clotting method
Biological Activity	The EC ₅₀ value of human MIP-3 α /CCL20 on Ca ²⁺ mobilization assay in CHO-K1/G15/hCCR6 cells (human Ga15 and human CCR6 stably expressed in CHO-K1 cells) is less than 200.0 ng/ml.
Expression System	E. coli
Apparent Molecular Weight	~8 kDa, on SDS-PAGE under reducing conditions.
Formulation	Lyophilized after extensive dialysis against 53 mM Na ₂ HPO ₄ , 147 mM NaH ₂ PO ₄ , 300 mM NaCl, pH 6.5.
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 ddH ₂ O or PBS up to 100 μ g/ml.
Storage & Stability	Upon receiving, this product remains stable for up to 6 months at lower than -70°C. Upon reconstitution, the product should be stable for up to 1 week at 4°C or up to 3 months at -20°C. For long term storage it is recommended that a carrier protein (example 0.1% BSA) be added. Avoid repeated freeze-thaw cycles.

Background

Target Background : Macrophage Inflammatory Protein-3 (MIP-3 α), also known as chemokine (C-C motif) ligand 20 (CCL20) or liver activation regulated chemokine (LARC), is a small cytokine belonging to the CC chemokine family. MIP-3 α is expressed in the liver, lymph nodes, appendix, PBL and lung and can signal through the CCR6 receptor. It is strongly chemotactic for lymphocytes and weakly attracts neutrophils. MIP-3 α is implicated in the formation and function of mucosal lymphoid tissues via chemoattraction of lymphocytes and dendritic cells toward the epithelial cells surrounding these tissues. Additionally, it promotes the adhesion of memory CD4⁺ T cells and inhibits colony formation of bone marrow myeloid immature progenitors.

Synonyms : CCL-20; CKb4; Exodus; LARC; MIP-3-alpha; MIP-3a; MIP3A; SCYA20; ST38; chemokine (C-C motif) ligand 20; C-C motif chemokine ligand 20

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