

Rev03
Update: Dec,14,2021

DATASHEET

MIP-3 α /CCL20, Human

Cat. No.: Z02842

Product Introduction

Species	Human
Protein Construction	MIP-3 α (Ala27-Met96) Accession # P78556
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 range of 10.0-50.0 ng/ml.
Expression System	E. coli
Theoretical Molecular Weight	8 kDa
Formulation	Lyophilized from a 0.2 μ m filtered solution in 20 mM PB, pH 7.4, 100 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 : 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

For laboratory research use only. Direct human use, including taking orally and injection and clinical use are forbidden.