

Rev03  
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**DATASHEET**

# MIP-3 $\alpha$ /CCL20, Mouse

Cat. No.: Z02955

## Product Introduction

<b>Species</b>	Mouse
<b>Protein Construction</b>	MIP-3 $\alpha$ (Ala28-Met97) Accession # O89093
<b>Purity</b>	> 96% as analyzed by SDS-PAGE > 96% as analyzed by HPLC
<b>Endotoxin Level</b>	< 1 EU/ $\mu$ g of protein by LAL method
<b>Biological Activity</b>	Fully biologically active when compared to standard. The biologically active determined by a chemotaxis bioassay using human CCR6 transfected murine BaF3 cells is in a concentration range of 0.1-10.0 ng/ml.
<b>Expression System</b>	E. coli
<b>Theoretical Molecular Weight</b>	8 kDa
<b>Formulation</b>	Lyophilized from a 0.2 $\mu$ m filtered solution in PBS, pH 7.4.
<b>Reconstitution</b>	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.
<b>Storage &amp; Stability</b>	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 $\alpha$ ), 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 $\alpha$  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 $\alpha$  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<sup>+</sup> 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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