

Rev04  
Update: Mar,01,2022

**DATASHEET**

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

Cat. No.: Z03268

## Product Introduction

<b>Species</b>	Rat
<b>Protein Construction</b>	MIP-3 $\alpha$ (Ala26-Met96) Accession # P97884-1
<b>Purity</b>	> 98% as analyzed by SDS-PAGE
<b>Endotoxin Level</b>	< 0.2 EU/ $\mu$ g of protein by gel clotting method
<b>Biological Activity</b>	The EC <sub>50</sub> value of rat MIP-3 $\alpha$ /CCL20 on Ca <sup>2+</sup> mobilization assay in CHO-K1/ G15/rCCR6 cells (human G15 and rat CCR6 stably expressed in CHO-K1 cells) is less than 0.6 $\mu$ g/ml.
<b>Expression System</b>	HEK 293
<b>Apparent Molecular Weight</b>	~8.2 kDa, on SDS-PAGE under reducing conditions.
<b>Formulation</b>	Lyophilized after extensive dialysis against PBS.
<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 ddH <sub>2</sub> O or PBS up to 100 $\mu$ g/ml.
<b>Storage &amp; Stability</b>	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 $\alpha$ ), 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

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