

# PRODUCT DATA SHEET



Bioworld Technology, Inc.

## Recombinant MIP-3 $\alpha$ /CCL20, Human

Catalog Number: BK0139-25 $\mu$ g

Source: Escherichia coli.

Quantity: 25 $\mu$ g

### Description:

Chemokine (C-C motif) ligand 20 (CCL20) or liver activation regulated chemokine (LARC) or Macrophage Inflammatory Protein-3 (MIP3A) is a small cytokine belonging to the CC chemokine family. It is strongly chemotactic for lymphocytes and weakly attracts neutrophils, also known as LARC (Liver and Activation-regulated Chemokine) and as Exodus. It can signal through the CCR6 receptor. MIP-3 alpha is chemotactic towards lymphocytes and dendritic cells. Additionally, it promotes the adhesion of memory CD4<sup>+</sup> T cells and inhibits colony formation of bone marrow myeloid immature progenitors. Recombinant Human MIP-3 $\alpha$ /CCL20 produced in E.coli is a single non-glycosylated polypeptide chain containing 70 amino acids. A fully biologically active molecule, rhMIP-3 $\alpha$ /CCL20 has a molecular mass of 8.0 kDa analyzed by reducing SDS-PAGE and is obtained by chromatographic techniques at GenScript.

### Molecular Weight:

8.0 kDa, observed by reducing SDS-PAGE.

### Purity:

> 95% as analyzed by SDS-PAGE.

### Biological Activity:

The EC<sub>50</sub> value of human MIP-3 alpha/CCL20 on Ca<sup>2+</sup> mobilization assay in CHO-K1/G 15/hCCR6 cells (human Ga15 and human CCR6 stably expressed in CHO-K1 cells) is less than 200 ng/ml.

### Physical Appearance:

Sterile Filtered White lyophilized (freeze-dried) powder.

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### Formulation:

Lyophilized after extensive dialysis against 53mM Na<sub>2</sub>HPO<sub>4</sub>, 147 mM NaH<sub>2</sub>PO<sub>4</sub>, 300 mM NaCl, pH6.5.

### AA Sequence:

ASNFDCCCLGYT-  
DRILHPKFIVGFTRQLANEGCDINAIIFHT-  
KKKLSVCANPKQTWVKYIVRLLSKKVKNM

### Endotoxin:

< 0.2 EU/ $\mu$ g, determined by LAL method.

### Reconstitution:

Reconstituted in ddH<sub>2</sub>O or PBS at 100  $\mu$ g/ml.

### Storage:

Lyophilized recombinant Human MIP- 3 $\alpha$ /CCL20 remains stable up to 6 months at -80 °C from date of receipt. Upon reconstitution, recombinant human MIP-3 $\alpha$ /CCL20 should be stable up to 1 week at 4°C or up to 2 months at -20 °C.

### Usage:

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