

# PRODUCT DATA SHEET



Bioworld Technology, Inc.

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

Catalog Number: BK0324-25 $\mu$ g

Source: HEK 293

Quantity: 25 $\mu$ g

### Description:

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. 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. MIP-3 $\alpha$  is expressed in the liver, lymph nodes, appendix, PBL and lung and can signal through the CCR6 receptor. Recombinant rat MIP-3  $\alpha$ /CCL20 produced in HEK293 cells is a polypeptide chain containing 71 amino acids. A fully biologically active molecule, rrMIP-3  $\alpha$ /CCL20 has a molecular mass of 8.2 kDa analyzed by reducing SDS-PAGE and is obtained by chromatographic techniques at GenScript.

### Molecular Weight:

8.2 kDa, observed by reducing SDS-PAGE.

### Purity:

> 98% as analyzed by SDS-PAGE.

### Biological Activity:

The EC<sub>50</sub> value of rat MIP-3  $\alpha$ /CCL20 on Ca<sup>2+</sup> mobilization assay in CHO-K1/ G 15/rCCR6 cells (human G 15 and rat CCR6 stably expressed in CHO-K1 cells) is less than 0.6  $\mu$ g/ml.

### Physical Appearance:

Sterile Filtered White lyophilized (freeze-dried) powder.

### Formulation:

Lyophilized after extensive dialysis against PBS.

### AA Sequence:

ASNFDCCLTYTKNVYHHARNFVGFT-  
TQMADEACDINAIIFHLK-  
SKRSVCADPKQIWVKRILHLLSLRTKKM

### 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 Rat MIP-3  $\alpha$ /CCL20 remains stable up to 6 months at -80  $^{\circ}$ C from date of receipt. Upon reconstitution, recombinant Rat MIP-3  $\alpha$ /CCL20 should be stable up to 1 week at 4  $^{\circ}$ C or up to 2 months at -20  $^{\circ}$ C.

### Usage:

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