

PRODUCT DATA SHEET



Bioworld Technology, Inc.

Recombinant MIP-3 α /CCL20, Human

Catalog Number: BK0139-5 μ g

Source: Escherichia coli.

Quantity: 5 μ 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⁺ T cells and inhibits colony formation of bone marrow myeloid immature progenitors. Recombinant Human MIP-3 α /CCL20 produced in E.coli is a single non-glycosylated polypeptide chain containing 70 amino acids. A fully biologically active molecule, rhMIP-3 α /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 EC₅₀ value of human MIP-3 alpha/CCL20 on Ca²⁺ 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 Na₂HPO₄, 147 mM NaH₂PO₄, 300 mM NaCl, pH6.5.

AA Sequence:

ASNFDCCCLGYT-
DRILHPKFIVGFTRQLANEGCDINAIIFHT-
KKKLSVCANPKQTWVKYIVRLLSKKVKNM

Endotoxin:

< 0.2 EU/ μ g, determined by LAL method.

Reconstitution:

Reconstituted in ddH₂O or PBS at 100 μ g/ml.

Storage:

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

Usage:

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