

# Macrophage Inflammatory Protein 3 alpha

Human, Recombinant (rHuMIP-3 $\alpha$ /CCL20)

Expressed in *E. coli*

Cat. No. CRP08115

Lot. No. (See product label)

## PRODUCT INFORMATION

**Description:** MIP-3 alpha/CCL20, also known as LARC (Liver and Activation-regulated Chemokine) and as Exodus, is a CC chemokine that is expressed in the liver, lymph nodes, appendix, PBL and lung and 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.

**Amino-Acid Sequence:** 70aa. non-glycosylated

**M. W. :** 8.0 kDa

**Recombinant:** Expressed in *E. coli*

**Purity:** >97% by SDS-PAGE and HPLC analyses.

**Physical Appearance:** Sterile Filtered White lyophilized (freeze-dried) powder.

**Formulation:** Lyophilized from a 0.2 $\mu$ m filtered concentrated (0.5mg/ml) solution in 20mM PB, pH 7.4, 100mM NaCl.

**Endotoxin:** Less than 1EU/ $\mu$ g of rHuMIP-3 $\alpha$ /CCL20 as determined by LAL method.

**Reconstitution:** We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in sterile distilled water or aqueous buffer containing 0.1% BSA to a concentration of 0.1-1.0 mg/ml. Stock solutions should be apportioned into working aliquots and stored at <-20°C. Further dilutions should be made in appropriate buffered solutions.

**Storage:** This lyophilized preparation is stable for several weeks at 2-8°C, but should be kept at -20°C for long term storage, preferably desiccated. Upon reconstitution, the preparation is stable for up to one week at 2-8°C. For maximal stability, apportion the reconstituted preparation into working aliquots and store at -20°C to -70°C. Avoid repeated freeze/thaw cycles.

**FOR RESEARCH USE ONLY**



**PDB rendering based on 1m8a.**  
Available structures: [1m8a](#), [2hci](#)

## GENE INFORMATION

**Gene Name:** [CCL20](#)

**Synonyms:** CKb4; LARC; exodus-1; MIP-3-alpha ; ST38; MIP3A; MIP-3a; SCYA20; Beta chemokine exodus-1; C-C motif chemokine 20 precursor; chemokine (C-C motif) ligand 20; CC chemokine LARC; CCL20\_HUMAN; Human mRNA for CC chemokine LARC precursor, complete cds; Liver and activation-regulated chemokine; Macrophage inflammatory protein 3 alpha; Small-inducible cytokine A20; chemokine (C-C motif) ligand 20; small inducible cytokine subfamily A (Cys-Cys), member 20.

**UniProt ID:** P78556

**mRNA Refseq:** [NM\\_001130046](#)

**Protein Refseq:** [NP\\_001123518](#)

**MIM:** [601960](#)

**GeneID:** [6364](#)

**Chromosome Location:** 2q33-q37

**Pathway:** Cytokine-cytokine receptor interaction.

**Function:** chemokine activity.

## REFERENCES

1.Hieshima K, et al.(1997). Molecular cloning of a novel human CC chemokine liver and activation-regulated chemokine (LARC) expressed in liver. Chemotactic activity for lymphocytes and gene localization on chromosome 2. J. Biol. Chem. 272 (9): 5846-53.

2.Schutysse E, et al.(2000). Regulated production and molecular diversity of human liver and activation-regulated chemokine/macrophage inflammatory protein-3 alpha from normal and transformed cells. J. Immunol. 165 (8): 4470-7.

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