DATASHEET
Version 20181206

MIP-3α/CCL20, Human

Cat. No.: Z03272-25

Size: 25.0 ug

Synonyms: CCL20, LARC, Exodus-1

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 CD^{4+} T cells and inhibits colony formation of bone marrow myeloid immature progenitors.
Recombinant Human MIP-3α/CCL20 produced in E.coliis a single non-glycosylated polypeptide chain containing 70 amino acids. A fully biologically active molecule, rhMIP-3α/CCL20has a molecular mass of 8.0 kDa analyzed by reducing SDS-PAGE and is obtained by chromatographic techniques at GenScript.

Amino Acid Sequence:

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00001 ASNFDCCLGY TDRILHPKFI VGFTRQLANE GCDINAIIFH
00041 TKKKLSVCAN PKQTWVKYIV RLLSKKVKNM
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Source: *E. coli*

Species: Human

Biological Activity: The EC_{50} value of humanMIP-3 alpha/CCL20 on Ca^{2+} 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.

Molecular Weight: 8.0 kDa, observed by reducing SDS-PAGE.

Formulation: Lyophilized after extensive dialysis against 53mM Na_2HPO_4, 147 mM NaH_2PO_4, 300 mM NaCl, pH6.5.

Reconstitution: Reconstituted in ddH_2O or PBS at 100 μg/ml.

Purity: > 95% as analyzed by SDS-PAGE.

Endotoxin Level: < 0.2 EU/μg, determined by LAL method.

Storage: Lyophilized recombinant Human MIP-3α/CCL20 remains stable up to 6 months at lower than -70°C from date of receipt. Upon reconstitution, recombinant human MIP-3α/CCL20 should be stable up to 1 week at 4°C or up to 2 months at -20°C.

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