Active Recombinant Human CCL20

Cat. No. CCL20-296H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human MIP-3α is a non-glycosylated protein, containing 70 amino acids and a molecular weight of 8.0 kDa.
Species	Human
Source	E.coli
Description	Macrophage Inflammatory Protein-3 alpha (MIP-3α), also called CCL20, is expressed in the liver, lungs, lymph nodes and peripheral blood lymphocytes. MIP-3α is strongly up regulated by inflammatory signals, and down regulated by the antiinflammatory cytokine IL-10. MIP-3α signals through the G protein-coupled receptor, CCR6, and acts as a chemoattractant to lymphocytes and dendritic cells.
Appearance	Sterile filtered white lyophilized (freeze-dried) powder.
Form	Recombinant human MIP-3α is lyophilized with no additives.
Bio-activity	The activity is determined by its ability to act as a chemoattractant to human T cells and is typically in the range of 7 - 70 ng/mL.
Molecular Mass	8.0 kDa
AA Sequence	ASNFDCCLGY TDRILHPKFI VGFTRQLANE GCDINAIIFH TKKKLSVCAN PKQTWVKYIV RLLSKKVKNM

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Endotoxin	Measured by kinetic LAL analysis and is typically ≤ 1 EU/μg protein.
Purity	≥ 97%
Stability	Lyophilized product is very stable at -20°C. Reconstituted material should be aliquoted and frozen at -20°C. It is recommended that a carrier protein (0.1% HSA or BSA) is added for long term storage.
Reconstitution	Centrifuge vial before opening. When reconstituting the product, gently pipet and wash down the sides of the vial to ensure full recovery of the protein into solution. It is recommended to reconstitute the lyophilized product with sterile water at a concentration of 0.1 mg/mL, which can be further diluted into other aqueous solutions.

GENE INFORMATION

Gene Name	CCL20 chemokine (C-C motif) ligand 20 [Homo sapiens (human)]
Official Symbol	CCL20
Synonyms	CCL20; CKb4; LARC; ST38; MIP3A; MIP-3a; SCYA20; MIP-3-alpha; C-C motif chemokine 20; chemokine (C-C motif) ligand 20; CC chemokine LARC; beta chemokine exodus-1; small-inducible cytokine A20; macrophage inflammatory protein 3 alpha; liver and activation-regulated chemokine; small inducible cytokine subfamily A (Cys-Cys), member 20
Gene ID	6364
mRNA Refseq	NM_004591
Protein Refseq	NP_004582

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MIM	601960
UniProt ID	P78556
Chromosome Location	2q36.3
Pathway	Chemokine receptors bind chemokines; Chemokine signaling pathway; Class A/1 (Rhodopsin-like receptors)
Function	chemokine activity

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