

Active Human CCL3

Cat. No. CCL3-109H Lot. No. (See product label)

SPECIFICATION

Product Overview	It is a synthetic Protein
Species	Human
Description	MIP-1 (Macrophage Inflammatory Protein 1 or CCL3) is a monocyte chemoattractant which has chemoattractant and adhesive effects on lymphocytes, preferentially attracting CD8+ cells. MIP-1 has also been shown to attract B cells and also eosinophils. It has also been identified as a stem cell inhibitory factor which can inhibit the proliferation of hematopoietic stem cells in vitro and in vivo. Receptors for MIP-1 are CCR1 and CCR5.
Form	Lyophilized
Bio-activity	Activity measured by the protein's ability to chemoattract cultured human monocytes. ED50 for this effect is 2-12 ng/ml.
Applications	Activity Assay
Storage	Product should be stored at -20°C. Aliquot to avoid freeze/thaw cycles
Reconstitution	Recommended reconstitution in sterile phosphate buffered saline which contains at least 0.1% human or bovine serum albumin to prepare a stocksolution of no less than 20 µg/ml and vortex thoroughly.

GENE INFORMATION

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Gene Name	CCL3 chemokine (C-C motif) ligand 3 [Homo sapiens]
Official Symbol	CCL3
Synonyms	CCL3; chemokine (C-C motif) ligand 3; SCYA3, small inducible cytokine A3 (homologous to mouse Mip 1a); C-C motif chemokine 3; G0S19 1; LD78ALPHA; MIP 1 alpha; SIS-beta; PAT 464.1; G0/G1 switch regulatory protein 19-1; macrophage inflammatory protein 1-alpha; tonsillar lymphocyte LD78 alpha protein; small inducible cytokine A3 (homologous to mouse Mip-1a); MIP1A; SCYA3; G0S19-1; MIP-1-alpha;
Gene ID	6348
mRNA Refseq	NM_002983
Protein Refseq	NP_002974
MIM	182283
UniProt ID	P10147
Chromosome Location	17q12
Pathway	Chagas disease (American trypanosomiasis), organism-specific biosystem; Chagas disease (American trypanosomiasis), conserved biosystem; Chemokine receptors bind chemokines, organism-specific biosystem; Chemokine signaling pathway, organism-specific biosystem; Chemokine signaling pathway, conserved biosystem; Class A/1 (Rhodopsin-like receptors), organism-specific biosystem; Cytokine-cytokine receptor interaction, organism-specific biosystem;
Function	CCR1 chemokine receptor binding; CCR5 chemokine receptor binding; calcium-

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dependent protein kinase C activity; chemoattractant activity; chemokine activity; kinase activity; phospholipase activator activity; protein binding; protein kinase activity;

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