

Active Recombinant Human CCL3 Protein (69 aa)

Cat. No. CCL3-075C Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human CCL3 Protein without tag was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	69
Description	Both MIP-1 alpha and MIP-1 beta are structurally and functionally related CC chemokines. They participate in the host response to invading bacterial, viral, parasite and fungal pathogens by regulating the trafficking and activation state of selected subgroups of inflammatory cells e.g. macrophages, lymphocytes and NK cells. While both MIP-1 alpha and MIP-1 beta exert similar effects on monocytes their effect on lymphocytes differ; with MIP-1 alpha selectively attracting CD8+ lymphocytes and MIP-1 beta selectively attracting CD4+ lymphocytes. Additionally, MIP-1 alpha and MIP-1 beta have also been shown to be potent chemoattractants for B cells, eosinophils and dendritic cells. Both human and murine MIP-1 alpha and MIP-1 beta are active on human and murine hematopoietic cells.
Form	Sterile Filtered White lyophilized (freeze-dried) powder.
Bio-activity	Determined by its ability to chemoattract human monocytes using a concentration range of 1.0-10.0 ng/mL, corresponding to a Specific Activity of 1×10^5 IU/mg.
Molecular Mass	7.8 kDa protein containing 69 amino acid residues, including the four highly

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conserved cysteine residues present in CC chemokines.

AA Sequence

ASLAADTPTACCFSYTSRQIPQNFADYFETSSQCCKPGVIFLTKRSRQVCADPSEE
WVQKYVSDLELSA

Endotoxin

Less than 1 EU/mg of rHu MIP-1 alpha/CCL3 as determined by LAL method.

Purity

>96% by SDS-PAGE and HPLC analyses.

Storage

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

Storage Buffer

Lyophilized from a 0.2mm filtered concentrated solution in 20mM PB, pH 7.4, 100mM NaCl.

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 centigrade. Further dilutions should be made in appropriate buffered solutions.

GENE INFORMATION

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

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(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

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