

Active Recombinant Human CCL8 Protein (76 aa)

Cat. No. CCL8-079C Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human CCL8 Protein without tag was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	76
Description	MCP-2 and MCP-3 are two monocyte chemotactic proteins produced by human MG-63 osteosarcoma cells. Both MCP-2 and MCP-3 are members of the CC family of chemokines and share 62% and 71% amino acid sequence identity, respectively, with MCP-1. MCP-3 also shares 58% amino acid identity with MCP-2. Similarly to other CC chemokines, all three MCP proteins are monocyte chemoattractants. In addition, the three MCPs can chemoattract activated NK cells as well as CD4+ and CD8+ T lymphocytes. All three cytokines have also been shown to attract eosinophils and induce histamine secretion from basophils.
Form	Sterile Filtered White lyophilized (freeze-dried) powder.
Bio-activity	Fully biologically active when compared to standard. Measured by its ability to chemoattract THP-1 human acute monocytic leukemia cells. The ED50 for this effect is typically 0.03-0.1 µg/mL, corresponding to a Specific Activity of 1×10^4 IU/mg.
Molecular Mass	8.9 kDa, a single non-glycosylated polypeptide chain containing 76 amino acids.

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AA Sequence	QPDSVSIPITCCFNVINRKIPIQRLESYTRITNIQCPKEAVIFKTKRGKEVCADPKERWV RDSMKHLDQIFQNLKP
Endotoxin	Less than 1 EU/mg of rHuMCP-2/CCL8 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	CCL8 chemokine (C-C motif) ligand 8 [Homo sapiens]
Official Symbol	CCL8
Synonyms	CCL8; chemokine (C-C motif) ligand 8; SCYA8, small inducible cytokine subfamily A (Cys Cys), member 8 (monocyte chemotactic protein 2); C-C motif chemokine 8; HC14; MCP 2; small-inducible cytokine A8; monocyte chemotactic protein 2;

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monocyte chemoattractant protein 2; small inducible cytokine subfamily A (Cys-Cys), member 8 (monocyte chemotactic protein 2); MCP2; MCP-2; SCYA8; SCYA10;

Gene ID 6355

mRNA Refseq NM_005623

Protein Refseq NP_005614

MIM 602283

UniProt ID P80075

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