

Recombinant Mouse Ccl8 protein

Cat. No. Ccl8-100M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse Ccl8 protein was expressed in Escherichia coli.
Species	Mouse
Source	E.coli
ProteinLength	74
Description	Murine CCL8, also known as monocyte chemotactic protein 2 (MCP-2), is belonging to the CC chemokine family and is encoded by the gene CCL8 in mouse. MCP-2 has two homogeneous MCP-1 (CCL2) and MCP-3 (CCL7). These three MCPs were found by IL-1-beta triggered human MG-63 osteosarcoma cells. CCL8 shares 62 % amino acid sequence identity with MCP-1, and shares 58 % amino acid sequence identity with MCP-2. CCL8 has chemotactic fuction for monocytes, eosinophils and neutrophils. In addition, it can also chemoattract activated NK cells.
Form	Lyophilized from a 0.2µm filtered concentrated solution in 20 mM PB, pH 7.4, 150 mM NaCl.
Bio-activity	Fully biologically active when compared to standard. The biological activity determined by a chemotaxis bioassay using human peripheral blood monocytes is in a concentration range of 10-100 ng/ml.
Molecular Mass	Approximately 8.5 kDa, a single, non-glycosylated polypeptide chain containing 74 amino acids.

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AA Sequence	GPDKAPVTCCFHV LKLK IPLRV LKSYERINNIQCPMEAVVFQTKQGMSLCVDPTQKW VSEYMEILDQKSQILQP
Endotoxin	Less than 1 EU/μg of rMuMCP-2/CCL8 as determined by LAL method.
Purity	>97% by SDS-PAGE and HPLC analysis.
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70 centigrade as supplied. 1 month, 2 to 8 centigrade under sterile conditions after reconstitution. 3 months, -20 to -70 centigrade under sterile conditions after reconstitution.
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
Official Symbol	Ccl8
Synonyms	CCL8; chemokine (C-C motif) ligand 8; C-C motif chemokine 8; small inducible cytokine A8; small-inducible cytokine A8; monocyte chemotactic protein 2; monocyte chemoattractant protein 2; monocyte chemoattractant protein-2; HC14; Mcp2; MCP-2; Scya8; AB023418; 1810063B20Rik;
Gene ID	20307

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mRNA Refseq	NM_021443
Protein Refseq	NP_067418
UniProt ID	Q9Z121

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