

Active Recombinant Mouse Chemokine (C-C Motif) Ligand 8

Cat. No. Ccl8-285M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse MCP-2, also known as CCL8, produced in E.coli is a non-glycosylated, polypeptide chain containing 74 amino acids and having a molecular mass of 8,504 Daltons.
Species	Mouse
Source	E.coli
Description	Chemokine (C-C motif) ligand 8, also known as monocyte chemoattractant protein 2 (MCP-2), is a protein that in humans is encoded by the CCL8 gene. CCL8 is a small cytokine belonging to the CC chemokine family. The CCL8 protein is produced as a precursor containing 109 amino acids, which is cleaved to produce mature CCL8 containing 75 amino acids.
Form	Lyophilized with no additives.
Purity	Purity Greater than 98% as determined by: Analysis by RP-HPLC. Reducing and non-reducing SDS-PAGE.
Bio-activity	MCP-2 is fully biologically active when compared to standard. The specific activity as determined by the ability of MCP-2 to chemoattract human peripheral blood at 10-100ng/ml.
Physical Appearance	Sterile Filtered white lyophilized (freeze-dried) powder.

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Solubility	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.
Purity Greater than 98% as determined by	Analysis by RP-HPLC. Reducing and non-reducing SDS-PAGE.
Protein Content determined by	UV spectroscopy at 280 nm. Analysis by RP-HPLC calibrated against a known standard. Quantitation on SDS-PAGE against a known standard.
Amino acid sequence	GPDKAPVTCC FHV LKLKIPL RVLKSYERIN NIQCPMEAVVQTKQGMSLC VDPTQKWVSE YMEILDQKSQ ILQP
Storage	Lyophilized product is very stable at -20 degrees. Reconstituted material should be aliquoted and frozen at -20. It is recommended to add a carrier protein (0.1% HSA or BSA) for long term storage.

GENE INFORMATION

Gene Name	Ccl8 chemokine (C-C motif) ligand 8 [Mus musculus]
Official Symbol	Ccl8
Synonyms	Ccl8; chemokine (C-C motif) ligand 8; HC14; Mcp2; MCP-2; Scya8; AB023418; OTTMUSP00000000873; small inducible cytokine A8; monocyte chemoattractant protein-2; 1810063B20Rik
Gene ID	20307
mRNA Refseq	NM_021443

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Protein Refseq	NP_067418
UniProt ID	Q9Z121
Chromosome Location	47.0 cM
Pathway	1810063B20Rik; Chemokine signaling pathway; Cytokine-cytokine receptor interaction
Function	chemokine activity; cytokine activity; heparin binding
PDB rendering based on 1esr.	