

Recombinant Mouse Ccl12 protein

Cat. No. Ccl12-621M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse Ccl12 protein was expressed in Escherichia coli.
Species	Mouse
Source	E.coli
ProteinLength	82
Description	Murine CCL12 is belonging to the CC chemokine family. It shows 66 % amino acid sequence identity to human MCP-1. CCL12 has been shown to be a potent chemoattractant for monocytes and lymphocytes but not neutrophils. At high concentrations, it will also chemoattract eosinophils. CCL12 can induce a calcium flux in human HEK-293 cells transfected with murine CCR2, but can not induce a calcium flux in HEK-293 cells transfected with CCR1, CCR3, or CCR5. That shows the functional receptor of CCL12 is CCR2.
Form	Lyophilized from a 0.2µm filtered concentrated solution in PBS, pH 7.4.
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 10-50 ng/ml.
Molecular Mass	Approximately 9.3 kDa, a single non-glycosylated polypeptide chain containing 82 amino acids.

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AA Sequence	GPDAVSTPVTCCYNVVKQKIHVRKLKSYRRITSSQCPREAVIFRTILDKEICADPKEK WVKNSINHLDKTSQTFILEPSCLG
Endotoxin	Less than 1 EU/μg of rMuMCP-5/CCL12 as determined by LAL method.
Purity	>95% 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	Ccl12
Official Symbol	Ccl12
Synonyms	CCL12; chemokine (C-C motif) ligand 12; C-C motif chemokine 12; MCP-1-related chemokine; small inducible cytokine A12; small-inducible cytokine A12; monocyte chemotactic protein 5; monocyte chemoattractant protein 5; MCP-5; Scya12;
Gene ID	20293
mRNA Refseq	NM_011331

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Protein Refseq	NP_035461
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UniProt ID	Q62401
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