

Active Recombinant Rabbit Chemokine (C-C Motif) Ligand 2

Cat. No. Ccl2-283R **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Rat MCP-1 produced in E.Coli is a non-glycosylated, Polypeptide chain containing 125 amino acids and having a molecular mass of 14092 Dalton.
Species	Rabbit
Source	E.coli
Description	Chemokine (C-C motif) ligand 2 (CCL2) is a small cytokine belonging to the CC chemokine family that is also known as monocyte chemotactic protein-1 (MCP-1) and small inducible cytokine A2. CCL2 recruits monocytes, memory T cells, and dendritic cells to sites of tissue injury, infection, and inflammation.
Form	Lyophilized with no additive.
Purity	Purity Greater than 95% as determined by: Analysis by RP-HPLC. Reducing and non-reducing SDS-PAGE.
Bio-activity	MCP-1 is fully biologically active when compared to standard. The specific activity as determined by the ability of Rat MCP-1 to chemoattract human peripheral blood at 10-100ng/ml.
Physical Appearance	Sterile Filtered white lyophilized (freeze-dried) powder.
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.

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Purity Greater than 95% 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.
Endotoxin Level	Endotoxin level as measured by LAL is <0.01ng/ug or <0.1EU/ug.
Amino acid sequence	QPDAVNAPLT CCYSFTGKMI PMSRLENYKR ITSSRCPKEA VVFVTKLKRE ICADPNKEW-V QKYIRKLDQN QVRSETTVFY KIASTLRTSA PLNVNLT-HKS EANASTLFST TTSSTSVEVT SMTE
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	Ccl2 chemokine (C-C motif) ligand 2 [Rattus norvegicus]
Official Symbol	Ccl2
Synonyms	Ccl2; chemokine (C-C motif) ligand 2; MCP-1; Scya2; Sigje; monocyte chemotactic protein 1; small inducible cytokine A2; monocyte chemoattractant protein-1; Small inducible gene JE
Gene ID	24770
mRNA Refseq	NM_031530

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Protein Refseq	NP_113718
UniProt ID	P14844
Chromosome Location	10q26
Pathway	Chemokine signaling pathway; Cytokine-cytokine receptor interaction
Function	CCR2 chemokine receptor binding; G-protein-coupled receptor binding; heparin binding; protein binding
PDB rendering based on 1dok.	