

Active Recombinant Mouse Chemokine (C-C motif) Ligand 2

Cat. No. Ccl2-282M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Murine JE(MCP-1) produced in E.Coli is a single,non-glycosylated, polypeptide chain containing 125 amino acids and having a molecular mass of 13803 Dalton.
Species	Mouse
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 additives.
Purity	Purity Greater than 98% as determined by: Analysis by RP-HPLC. Reducing and non-reducing SDS-PAGE.
Bio-activity	Murine JE(MCP-1)is fully biologically active when compared to standard. The Biological activity is calculated by its ability to chemoattract Balb/C mouse spleen MNCs at 1.0-20.0 ng/ml.
Physical Appearance	Sterile Filtered white lyophilized (freeze-dried) powder.
Solubility	It is recommended to reconstitute the lyophilized product with sterile water at a

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	concentration of 0.1 mg μ s/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	QPDVAVNAPLT CCYSFTSKMI PMSRLESYKR ITSSRCPKEA VVFVTKLKRE VCADPKKEW-V QTYIKNLDRN QMRSEPTTLF KTASALRSSA PLNVK-LTRKS EANASTTFST TTSSTSVGVT SVTVN
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.
Pathways	Chemokine signaling pathway; Cytokine-cytokine receptor interaction

GENE INFORMATION

Gene Name	Ccl2 chemokine (C-C motif) ligand 2 [<i>Mus musculus</i>]
Official Symbol	Ccl2
Synonyms	Ccl2; chemokine (C-C motif) ligand 2; JE; HC11; MCAF; MCP1; MCP-1; Scya2; Sigje; SMC-CF; AI323594; monocyte chemoattractant protein-1; monocyte chemotactic protein; OTTMUSP00000000786; small inducible cytokine A2; monocyte chemotactic protein

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Gene ID	20296
mRNA Refseq	NM_011333
Protein Refseq	NP_035463
UniProt ID	P10148
Chromosome Location	11 C-E1; 11 46.5 cM
Function	G-protein-coupled receptor binding; chemokine activity; cytokine activity; protein binding
PDB rendering based on 1dok.	