

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 mgµs/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

QPDAVNAPLT CCYSFTSKMI PMSRLESYKR ITSSRCPKEA VVFTVTKLKRE
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 [*Mus musculus*]

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

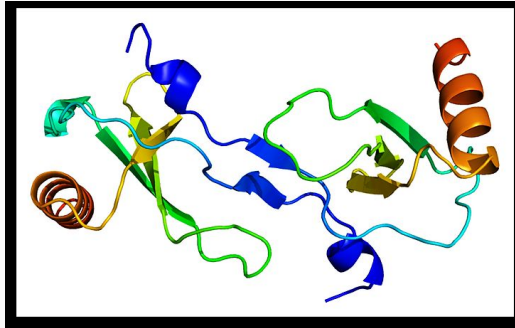
Protein Refseq NP_035463

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.



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