

## 32-1935: rMCP 1 Recombinant Protein

Alternative Name :	Small inducible cytokine A2,CCL2,Monocyte chemotactic protein 1,MCP-1,Monocyte chemoattractant
	protein 1, Monocyte chemotactic and activating factor, MCAF, Monocyte secretory protein
	JE,HC11,chemokine (C-C motif) ligand 2,MCP1,SCYA2,GDCF-2,

## **Description**

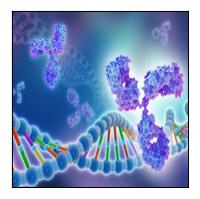
Source : Escherichia Coli. Monocyte Chemotactic Protein-1 Rat Recombinant produced in E.Coli is a non-glycosylated, Polypeptide chain containing 125 amino acids and having a molecular mass of 14.1 kDa. The MCP-1 is purified by proprietary chromatographic techniques. Chemokine (C-C motif) ligand 2 (CCL2) is a small cytokine belonging to the CC chemokine family that is also known as monocyte chemotactic protein-1 (MCP-1). It is found at the site of tooth eruption and bone degradation. In the bone, CCL2 is expressed by mature osteoclasts and osteoblasts and is under the control of nuclear factor B (NFB). CCL2 recruits immune cells, such as monocytes, to sites of tissue injury and infection. This chemokine is produced as a protein precursor containing signal peptide of 23 amino acids and a mature peptide of 76 amino acids. It is a monomeric polypeptide, with a molecular weightof approximately 13kDa. As with many other CC chemokines, CCL2 is located on chromosome 17 in humans. The cell surface receptors that bind CCL2 are CCR2 and CCR5.

## **Product Info**

Amount : Purification :	10 μg Greater than 98.0% as determined by SDS-PAGE.
Content :	The protein was lyophilized from a concentrated (1mg/ml) sterile solution containing no additives.
Storage condition :	Lyophilized MCP-1 although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution CCL2 should be stored at 4°C between 2-7 days and for future use below -18°C.For long term it is recommended to add a carrier protein (0.1% HSA or BSA).Please prevent freeze-thaw cycles.
Amino Acid :	QPDAVNAPLT CCYSFTGKMI PMSRLENYKR ITSSRCPKEA VVFVTKLKRE ICADPNKEWV QKYIRKLDQN QVRSETTVFY KIASTLRTSA PLNVNLTHKS EANASTLFST TTSSTSVEVT SMTEN.

## **Application Note**

It is recommended to reconstitute the lyophilized Monocyte Chemotactic Protein-1 in sterile  $18M\tilde{A} \Delta c$ -cm H2O not less than  $100\tilde{A} \Delta c$ -m H2O not less than  $100\tilde{A} \Delta c$ -



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