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# MCP 1 Mouse

*Monocyte Chemotactic Protein-1 Mouse Recombinant (CCL2)*
*CHK0099*

## Product Overview

| | |
|---|---|
| Name | MCP 1 Mouse |

**Description**

Monocyte Chemotactic Protein-1 Mouse Recombinant (CCL2)

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|---|---|
| Accession (Primary) | P10148 |

**Synonyms**

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, SMC-CF, HSMCR30, MGC9434, GDCF-2 HC11, Platelet-derived growth factor-inducible protein JE.

**Introduction**

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 (NF?B). 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 acidsand a mature peptide of 76 amino acids. It is a monomeric polypeptide, with a molecular weight of 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.

**Source**

Escherichia Coli.

**Physical Appearance**

Sterile Filtered White lyophilized (freeze-dried) powder.

**Formulation**

The protein was lyophilized with no additives.

**Stability**

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 storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

**Purity**

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Greater than 90.0% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.

**Amino acid sequence**

The sequence of the first five N-terminal amino acids was determined and was found to be Gln-Pro-Asp-Ala-Val.

**Biological Activity**

The biological activity was determined by calculating its ability to chemoattract Balb/C mouse spleen MNCs at 1.0-20.0 ng/ml.

**Solubility**

It is recommended to reconstitute the lyophilized Monocyte Chemotactic Protein-1 in sterile 18MΩ-cm H2O not less than 100 µg/ml, which can then be further diluted to other aqueous solutions.

**Precautions**

MCP 1 Mouse is for research use only and not for use in diagnostic or therapeutic procedures.

## Target Information: ( P10148 )