9853 Pacific Heights Blvd.
Suite D. San Diego,
CA 92121, USA
Tel: 858-263-4982
Email: info@abeomics.com

# 32-1933: mMCP 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 Mouse Recombinant produced in E.Coli is a single,non-glycosylated, polypeptide chain containing 125 amino acids and having a molecular mass of 14 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 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.

## Product Info

| | |
|---|---|
| **Amount :** | 10 µg |
| **Purification :** | Greater than 90.0% as determined by:(a) Analysis by RP-HPLC.(b) Analysis by SDS-PAGE. |
| **Content :** | The protein was lyophilized with 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 storage it is recommended to add a carrier protein (0.1% HSA or BSA).Please prevent freeze-thaw cycles. |
| **Amino Acid :** | The sequence of the first five N-terminal amino acids was determined and was found to be Gln-Pro-Asp-Ala-Val. |

## Application Note

It is recommended to reconstitute the lyophilized Monocyte Chemotactic Protein-1 in sterile 18MÃ□Â©-cm H2O not less than 100Ã□Âµg/ml, which can then be further diluted to other aqueous solutions. The biological activity was determined by calculating its ability to chemoattract Balb/C mouse spleen MNCs at 1.0-20.0 ng/ml.