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## Product Data Sheet

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Product Name: MCP 1 Mouse, His  
 Cat. No.: GP21152  
 Batch No.: 1

### Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
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.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MQPDAVNAPL TCCYSFTSKM IPMSRLESYK RITSSRCPKE AVVFVTKLKR EVCADPKKEW VQTYIKNLDR NQMRSEPTTL FKTASALRSS APLNVKLTRK SEANASTTFS TTTSTSVGV TSVTVN.		
Formulation	MCP-1 protein solution (0.25mg/ml) containing PBS (pH 7.4) and 10% glycerol.		

### 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  $\kappa$ B (NF $\kappa$ 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 acids and 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.

### Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer

**Caution: Product has not been fully validated for medical applications. For research use only.**

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periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please avoid freeze thaw cycles.

### Background

MCP-1 Mouse Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 146 amino acids (24-148 a.a) and having a molecular mass of 16kDa. MCP-1 is fused to a 21 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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