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## Product Data Sheet

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Product Name: MCP1 Human, HEK  
 Cat. No.: GP26101  
 Batch No.: 1

### Product Data

Purity	>98%	Source	HEK293 Cells.
Physical Appearance	solid	Shipping Condition	withIcePacks
Synonyms	CCL2, C-C motif chemokine 2, GDCF-2, HSMCR30, JE, HC11, MCAF, MCP-1, MCP1, Scya2, Sigje, SMC-CF, Immediate-early serum-responsive protein JE, Monocyte chemoattractant protein 1, Small-inducible cytokine A2.		
Amino Acid Sequence	QPDAINAPVT CCYNFTNRKI SVQRLASYRR ITSSKCPKEA VIFKTIVAKE ICADPKQKWV QDSMDHLDKQ TQTPKTHHHH HH		
Formulation	The MCP1 solution (0.25mg/1ml) contains phosphate buffered saline (pH7.4) 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

### Biological Activity

Measured its ability to chemoattract using THP-1 human acute monocytic leukemia cells. The ED50 range  $\leq$  30 ng/ml.

### Stability

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

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Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

### Background

MCP1 Human HEK Recombinant produced in HEK293 Cells is a single, glycosylated polypeptide chain containing 82 amino acids (24-99a.a) and having a molecular mass of 9.5 kDa. MCP1 is expressed with a 6 amino acid His tag at C-Terminus and purified by proprietary chromatographic techniques.

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