
Product Data Sheet

Product Name: MCP1 Rat, Sf9
 Cat. No.: GP26102
 Batch No.: 1

Product Data

Purity	>98%	Source	Sf9, Baculovirus cells
Physical Appearance	solid	Shipping Condition	withIcePacks
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	ADPQPDVNA PLTCCYSFTG KMIPMSRLEN YKRITSSRCP KEAVVFVTKL KREICADPNK EWVQKYIRKL DQNQVRSETT VFYKIASTLR TSAPLNVNLT HKSEANASTL FSTTTSSSTSV EVTSMTENHH HHHH		
Formulation	The MCP1 Rat protein solution (0.5mg/ml) contains 10% glycerol and Phosphate-Buffered Saline (pH 7.4).		

Introduction

Chemokine (C-C motif) ligand 2 (CCL2) is a small cytokine belongs to the CC chemokine family which is also known as monocyte chemotactic protein-1 (MCP-1). MCP 1 is found at the site of tooth eruption and bone degradation. In the bone, CCL2 is expressed by mature osteoclasts. CCL2 recruits immune cells, such as monocytes, to sites of tissue injury and infection. MCP 1 is produced as a protein precursor containing signal peptide of 23 amino acids and a mature peptide of 76 amino acids. 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 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.

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

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Background

MCP1 Rat Recombinant produced in Sf9 Baculovirus cells is a single, glycosylated polypeptide chain containing 134 amino acids (24-148 aa) and having a molecular mass of 15.1kDa. MCP1 is fused to a 6 amino acid His tag at C-terminus and purified by proprietary chromatographic techniques.

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