

**Monocyte Chemotactic Protein-1, Human Recombinant, His-tag****CATALOG NUMBER: CMC-246-050P, 50 µg**

<b>Synonyms</b>	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.
<b>Introduction</b>	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 κB (NFκB). 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.
<b>Description</b>	<p>MCP-1 Human Recombinant also known as Monocyte Chemotactic and Activating Factor (MCAF) produced in <i>E. coli</i> is a non-glycosylated, Polypeptide chain containing 97 amino acids (24-99) and having a molecular mass of 10.9 kDa.</p> <p>The MCP-1 is fused to 20 amino acids His-Tag at N-terminus and purified by proprietary chromatographic techniques.</p>
<b>Source</b>	<i>Escherichia coli</i> .
<b>Amino Acid Sequence</b>	<b>MGSSHHHHHH SSGLVPRGSH</b> MQPDAINAPV TCCYNFTNRK ISVQRLASYR RITSSKCPKE AVIFKTIVAK EICADPKQKW VQDSMDHLDK QTQTPKT
<b>Formulation</b>	The His-Tagged MCP-1 protein solution contains 20mM Tris-HCL, 1mM DTT and 20% glycerol.
<b>Storage</b>	Store at 4°C if entire vial will be used within 2-4 weeks. Store frozen at -20°C for longer period of time. Please prevent freeze-thaw cycles.
<b>Purity</b>	Greater than 95% as determined by SDS-PAGE.