

## Product datasheet for **TP723718**

### **MCP1 (CCL2) (NM\_002982) Human Recombinant Protein**

#### **Product data:**

<b>Product Type:</b>	Recombinant Proteins
<b>Description:</b>	Purified recombinant protein of Human chemokine (C-C motif) ligand 2 (CCL2 / MCP-1)
<b>Species:</b>	Human
<b>Expression Host:</b>	E. coli
<b>Expression cDNA Clone or AA Sequence:</b>	Human MCP1, the region of Gln24-Thr99, from gene Accession# NM_002982
<b>Tag:</b>	Tag Free
<b>Predicted MW:</b>	8.7 kDa
<b>Concentration:</b>	lot specific
<b>Purity:</b>	Purity is >98%, as determined by Coomassie stained SDS-PAGE.
<b>Buffer:</b>	10 mM NaHPO4 pH 7.2, 0.15M NaCl
<b>Bioactivity:</b>	The ED50 is 6-15 ng/ml, corresponding to a specific activity of 1.6-0.6 x 10 <sup>5</sup> units/mg, determined by the dose dependent chemoattraction of THP-1 cells
<b>Endotoxin:</b>	Less than 0.01 ng per µg protein as determined by the LAL method
<b>Storage:</b>	Store at -80°C.
<b>Stability:</b>	Unopened vial can be stored between 2°C and 8°C for up to 2 weeks, at -20°C for up to 6 months, or at -70°C or below until the expiration date. Aliquots can be stored between 2°C and 8°C for up to one week and stored at -20°C or colder for up to 3 months. Avoid repeated freeze/thaw cycles.
<b>RefSeq:</b>	<a href="#">NP_002973</a>
<b>Locus ID:</b>	6347
<b>UniProt ID:</b>	<a href="#">P13500</a>
<b>RefSeq Size:</b>	760
<b>Cytogenetics:</b>	17q12
<b>RefSeq ORF:</b>	297
<b>Synonyms:</b>	GDCF-2; HC11; HSMCR30; MCAF; MCP-1; MCP1; SCYA2; SMC-CF



[View online »](#)

**Summary:**

This gene is one of several cytokine genes clustered on the q-arm of chromosome 17. Chemokines are a superfamily of secreted proteins involved in immunoregulatory and inflammatory processes. The superfamily is divided into four subfamilies based on the arrangement of N-terminal cysteine residues of the mature peptide. This chemokine is a member of the CC subfamily which is characterized by two adjacent cysteine residues. This cytokine displays chemotactic activity for monocytes and basophils but not for neutrophils or eosinophils. It has been implicated in the pathogenesis of diseases characterized by monocytic infiltrates, like psoriasis, rheumatoid arthritis and atherosclerosis. It binds to chemokine receptors CCR2 and CCR4. Elevated expression of the encoded protein is associated with severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) infection. [provided by RefSeq, Aug 2020]

**Protein Families:**

Druggable Genome, Secreted Protein

**Protein Pathways:**

Chemokine signaling pathway, Cytokine-cytokine receptor interaction, NOD-like receptor signaling pathway