

OriGene Technologies, Inc.

9620 Medical Center Drive, Ste 200 Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com CN: techsupport@origene.cn

Product datasheet for TP723718

MCP1 (CCL2) (NM_002982) Human Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Human chemokine (C-C motif) ligand 2 (CCL2 / MCP-1)
Species:	Human
Expression Host:	E. coli
Expression cDNA Clone or AA Sequence:	Human MCP1, the region of Gln24-Thr99, from gene Accession# NM_002982
Tag:	Tag Free
Predicted MW:	8.7 kDa
Concentration:	lot specific
Purity:	Purity is >98%, as determined by Coomassie stained SDS-PAGE.
Buffer:	10 mM NaHPO4 pH 7.2, 0.15M NaCl
Bioactivity:	The ED50 is 6-15 ng/ml, corresponding to a specific activity of 1.6-0.6 x 10^5 units/mg, determined by the dose dependent chemoattraction of THP-1 cells
Endotoxin:	Less than 0.01 ng per μ g protein as determined by the LAL method
Storage:	Store at -80°C.
Stability:	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.
RefSeq:	<u>NP 002973</u>
Locus ID:	6347
UniProt ID:	<u>P13500</u>
RefSeq Size:	760
Cytogenetics:	17q12
RefSeq ORF:	297
Synonyms:	GDCF-2; HC11; HSMCR30; MCAF; MCP-1; MCP1; SCYA2; SMC-CF



This product is to be used for laboratory only. Not for diagnostic or therapeutic use. ©2025 OriGene Technologies, Inc., 9620 Medical Center Drive, Ste 200, Rockville, MD 20850, US

	MCP1 (CCL2) (NM_002982) Human Recombinant Protein – TP723718
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 Pathway	/s: Chemokine signaling pathway, Cytokine-cytokine receptor interaction, NOD-like receptor signaling pathway

~ \$%~