

Product datasheet for PH302180

MCP1 (CCL2) (NM_002982) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	CCL2 MS Standard C13 and N15-labeled recombinant protein (NP_002973)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC202180
Predicted MW:	11 kDa
Protein Sequence:	>RC202180 protein sequence Red=Cloning site Green=Tags(s) MKVSAALLCLLLIAATFIPQGLAQPDAINAPVTCCYNFTNRKISVQRLASYRRITSSKCPKEAVIFKTIV AKEICADPKQKWVQDSMDHLDKQTQTPKT TRTRPLEQKLISEEDLAANDILDYKDDDDKV
Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- 13C6, 15N4]-L-Arginine and [U- 13C6, 15N2]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	NP_002973
RefSeq Size:	760
RefSeq ORF:	297
Synonyms:	GDGF-2; HC11; HSMCR30; MCAF; MCP-1; MCP1; SCYA2; SMC-CF
Locus ID:	6347
UniProt ID:	P13500
Cytogenetics:	17q12



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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

Product images:

Coomassie blue staining of purified CCL2 protein (Cat# [TP302180]). The protein was produced from HEK293T cells transfected with CCL2 cDNA clone (Cat# [RC202180]) using MegaTran 2.0 (Cat# [TT210002]).