MCP-1 Human Recombinant Protein

PRODUCT OVERVIEW

Product Name	MCP-1, Recombinant Protein
Full Product Name	Recombinant Human MCP-1 Protein
Product Gene Name	MCP-1 recombinant protein
Product Synonym Names	MCP1; SCYA2; CCL2; MCP-1
Host	Yeast
Purity/Purification	> 90 % as determined by SDS-PAGE
Molecular Weight	32 kDa
OMIM	M24545 mRNA
3D Structure	ModBase 3D Structure for P13500
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for MCP-1 recombinant protein	Western Blot (WB), ELISA (EIA)
Related Product Information for MCP-1 recombinant protein	MBS286159 is a recombinant protein targeting MCP-1. Also known as Recombinant Human MCP-1 Protein. Host: Yeast.
Other Notes	Small volumes of MCP-1 recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for MCP-1. It may not necessarily be applicable to this product.

NCBI GI #	4506841
NCBI GeneID	6347
NCBI Accession #	NP_002973.1
UniProt Primary Accession #	P13500
UniProt Secondary Accession #	Q9UDF3; B2R4V3
UniProt Related Accession #	P13500
GenBank Nucleotide #	NM_002982.3
NCBI Official Full Name	C-C motif chemokine 2
NCBI Official Synonym Full Names	C-C motif chemokine ligand 2
NCBI Official Symbol	CCL2
NCBI Official Synonym Symbols	HC11; MCAF; MCP1; MCP-1; SCYA2; GDCF-2; SMC-CF; HSMCR30
UniProt Protein Name	C-C motif chemokine 2
UniProt Synonym Protein Names	HC11; Monocyte chemoattractant protein 1; Monocyte chemotactic and activating factor; MCAF; Monocyte chemotactic protein 1; MCP-1; Monocyte secretory protein JE; Small-inducible cytokine A2

Protein Family	Major capsid protein
UniProt Gene Name	CCL2
UniProt Synonym Gene Names	MCP1; SCYA2; MCAF; MCP-1
UniProt Entry Name	CCL2_HUMAN
NCBI Protein Information	C-C motif chemokine 2
NCBI Summary for MCP-1	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. [provided by RefSeq, Jul 2013]
UniProt Comments for MCP-1	CCL2: Chemotactic factor that attracts monocytes and basophils but not neutrophils or eosinophils. Augments monocyte anti-tumor activity. Has been implicated in the pathogenesis of diseases characterized by monocytic infiltrates, like psoriasis, rheumatoid arthritis or atherosclerosis. May be involved in the recruitment of monocytes into the arterial wall during the disease process of atherosclerosis. Monomer or homodimer; in equilibrium. Binds to CCR2 and CCR4. Is tethered on endothelial cells by glycosaminoglycan (GAG) side chains of proteoglycans. Belongs to the intercrine beta (chemokine CC) family. Protein type: Chemokine; Motility/polarity/chemotaxis; Secreted; Secreted, signal peptide Chromosomal Location of Human Ortholog: 17q11.2-q12 Cellular Component: extracellular region Molecular Function: CCR2 chemokine receptor binding; protein kinase activity; receptor binding Biological Process: angiogenesis; astrocyte cell migration; cell adhesion; cell surface receptor linked signal transduction; cellular homeostasis; chemotaxis; cytokine and chemokine mediated signaling pathway; cytoskeleton organization and biogenesis; G-protein coupled receptor protein signaling pathway; G-protein signaling, coupled to cyclic nucleotide second messenger; humoral immune response; inflammatory response; JAK-STAT cascade; lipopolysaccharide-mediated signaling pathway; macrophage chemotaxis; MAPKKK cascade; monocyte chemotaxis; negative regulation of neuron apoptosis; neutrophil chemotaxis; organ morphogenesis; positive regulation of GTPase activity; positive regulation of inflammatory response; positive regulation of nitric-oxide synthase biosynthetic process; positive regulation of T cell activation; protein amino acid phosphorylation; protein kinase B signaling cascade; regulation of cell shape; viral genome replication Disease: Human Immunodeficiency Virus Type 1, Susceptibility To; Mycobacterium Tuberculosis, Susceptibility To; Neural Tube Defects
Research Articles on MCP-1	**1.** In perennial allergic rhinitis patients, we found positive correlation between RANTES levels and nasal symptom score and eosinophil counts. In patients with non-allergic rhinitis with eosinophilia syndrome, the concentrations of MCP-1 and RANTES were associated with nasal symptom score and percentage of eosinophils.
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