

CCL2/MCP-1, Mouse, Recombinant

Cat. No. : PCK309

General Information

Synonyms	Monocyte Chemotactic Protein-1; MCP-1; JE
Species	Mouse
Expression host	E.coli
Sequence	QPDVAVNAPLTCCYSFTSKMIPMSRLESYKRITSSRCPKEAVVFVTKLKREVCADPKKEWVQTYI KNLDRNQMRSEPTTLFKTASALRSSAPLNVKLTRKSEANASTTFSTTTSSSTSVGVTSVTVN with polyhistidine tag at the N-terminus.
Accession	P10148
Tag	His-tag at the N-terminus
Mol mass	14.65 kDa
Expiration date	12 months
Bio activity	Measure by its ability to chemoattract THP-1 cells using a concentration range of 10-100 ng/mL.

Product feature

Purity	> 98% as determined by SDS-PAGE. Ni-NTA chromatography.
Endotoxin (EU/μg)	< 0.1
Storage	Lyophilized protein should be stored at -5~-20°C for 1 year. Upon reconstitution, store at 2-8°C for up to 1 week. Further dilute in a buffer containing a carrier protein or stabilizer (e.g. 0.1% BSA, 10% FBS, 5% HSA or 5% trehalose solution), protein aliquots should be stored at -5~-20°C or -80°C for 3-6 months.
Shipping	Ice bag
Formulation	The protein was lyophilized from a 0.2 μm filtered solution containing 1 × PBS, pH 7.4.
Reconstitution	It is recommended to reconstitute the lyophilized protein in sterile water to a concentration not less than 100 μg/mL. Do Not Vortex! Vigorous shaking may impair the biological activity of the protein.

Background

C-C Motif Chemokine Ligand 2 (CCL2) is a 13.88 kDa cytokine with 125 amino acid residues and is also known as monocyte chemoattractant protein 1 (MCP1). CCL2 is mainly secreted from monocytes, macrophages, and dendritic cells. It regulates many biological functions, such as recruitments of monocytes, memory T cells, eosinophils, and dendritic cells, extravasation of helper T cells, response to TNFα and IFNγ, and angiogenesis. In addition, upon binding with CCR4, it initiates leukocyte migration response to inflammation.

SDS-PAGE

