

MCP-1/CCL2 (C-6His), Mouse, Recombinant

Cat. No. : PCK228

General Information

Synonyms	C-C Motif Chemokine 2; Monocyte chemoattractant Protein 1; Monocyte chemotactic Protein 1; MCP-1; Platelet-Derived Growth Factor-inducible Protein JE; Small-inducible Cytokine A2; Ccl2; Je; Mcp1; Scya2
Species	Mouse
Expression host	Human Cells
Sequence	Gln24-Asn148
Accession	P10148
Tag	C-6His
Mol mass	14.7 kDa
Expiration date	6 months

Product feature

Purity	> 95% as determined by reducing SDS-PAGE.
Endotoxin (EU/μg)	< 0.1
Storage	Store at ≤-5~-20°C, stable for 6 months after receipt. Store at ≤-5~-20°C, stable for 3 months under sterile conditions after opening. Please minimize freeze-thaw cycles.
Shipping	Ice bag
Formulation	Supplied as a 0.2 μm filtered solution of PBS, pH 7.4.

Background

C-C Motif Chemokine 2 (CCL2) is a member of the C-C or β Chemokine family. Mouse CCL2 shares 82% amino acid (aa) identity with rat CCL2 over the entire sequence, and 58%, 56%, 55%, 53% and 53% aa identity with human, equine, porcine, bovine and canine CCL2, respectively. Fibroblasts, glioma cells, smooth muscle cells, endothelial cells, lymphocytes and mononuclear phagocytes can produce CCL2 either constitutively or upon mitogenic stimulation, but monocytes and macrophages appear to be the major source. In addition to its chemotactic activity, CCL2 induces enzyme and Cytokine release by monocytes, NK cells and lymphocytes, and histamine release by basophils that express its Receptor, CCR2. Additionally, it promotes Th2 polarization in CD4+ T cells. CCL2-mediated recruitment of monocytes to sites of inflammation is proposed to play a role in the pathology of atherosclerosis, multiple sclerosis and allergic asthma.

SDS-PAGE