Recombinant Mouse CCL2/MCP-1 Protein (His Tag)

Catalog Number: PKSM040978



Note: Centrifuge before opening to ensure complete recovery of vial contents.

Description

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 HEK293 Cells **Sequence** Gln24-Asn148

AccessionP10148Calculated Molecular Weight14.7 kDaObserved molecular weight20-36 kDaTagC-His

Properties

Purity > 95 % as determined by reducing SDS-PAGE.

Endotoxin < 1.0 EU per ug of the protein as determined by the LAL method.

Storage Store at $< -20^{\circ}$ C, stable for 6 months. Please minimize freeze-thaw cycles.

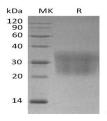
Shipping This product is provided as liquid. It is shipped at frozen temperature with blue

ice/gel packs. Upon receipt, store it immediately at < - 20°C.

Formulation Supplied as a 0.2 µm filtered solution of PBS, pH7.4.

Reconstitution Not Applicable

Data



> 95 % as determined by reducing SDS-PAGE.

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.

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