



Recombinant Protein Technical Manual
Recombinant Mouse CCL2/MCP Protein (His Tag)
RPES5090

Product Data:

Product SKU: RPES5090

Size: 10µg

Species: Mouse

Expression host: Human Cells

Uniprot: P10148

Protein Information:

Molecular Mass: 14.7 kDa

AP Molecular Mass: 20-36 kDa

Tag: C-6His

Bio-activity:

Purity: > 95 % as determined by SDS-PAGE

Endotoxin: < 1.0 EU per µg as determined by the LAL method.

Storage: Store at < -20°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 20mM Tris, 500mM NaCl, 10% glycerol, pH7.4 .

Reconstitution: Please refer to the printed manual for detailed information.

Application:

Synonyms: C-C motif chemokine 2; Monocyte chemoattractant protein 1; Monocyte chemotactic protein 1; MCP; Platelet-derived growth factor-inducible protein JE; Small-inducible cytokine A2; Ccl2; Je; Mcp1; Scya2

Immunogen Information:

Sequence: Gln24-Asn148

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.