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Recombinant Mouse CCL2/MCP-1 Protein

Catalog No.: RP01626 Recombinant

Sequence Information

Species	Gene ID	Swiss Prot
Mouse	20296	P10148

Tags
No tag

Synonyms
C-C motif chemokine ligand 2; CCL2; GDCF-2; HC11; HSMCR30; MCAF; Mcp1; MCP-1; SCYA2; SMC-CF;CCL2

Product Information

Source	Purification
Pichia	≥ 95 % as determined by SDS-PAGE.

Calculated MW	Observed MW
13.85 kDa	14-18 kDa

Endotoxin
< 0.1 EU/μg of the protein by LAL method.

Formulation
Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4.

Reconstitution
Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stablizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

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Background

Monocyte chemoattractant protein 1 (MCP-1), also called CCL2, belongs to a group of CC chemokines located in chromosome 17q11.2. MCP-1 protein interacts with chemokine C-C motif receptor 2 (CCR2) to activate and recruit monocytes, macrophages, CD4+ T cells and immature dendritic cells to the site of infection. The presence of MCP-1 protein in an adequate concentration is important for granuloma formation and M. tuberculosis clearance.

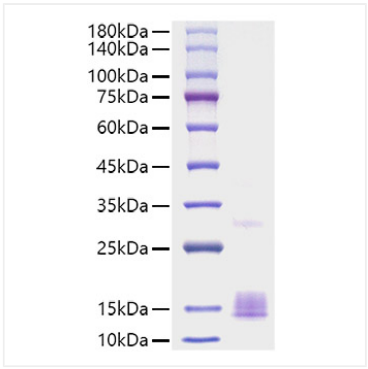
Basic Information

Description
Recombinant Mouse CCL2/MCP-1 Protein is produced by *Pichia* expression system. The target protein is expressed with sequence (Gln 24-Asn148) of mouse CCL2/MCP-1 (Accession #NP_035463.1) fused with no additional amino acid.

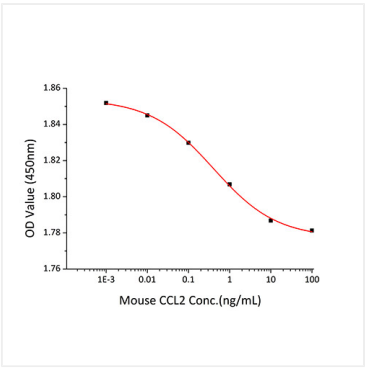
Bio-Activity
1.Measured by the ability to inhibit the proliferation of HUVEC(Human Umbilical Vein Endothelial Cells).The ED_{50} for this effect is 0.20-0.80 ng/mL.|2.Measured by its ability to chemoattract THP-1 cells. The ED_{50} for this effect is typically 2.87-11.48 ng/mL.

Storage
Store at -20℃.Store the lyophilized protein at -20℃ to -80 ℃ up to 1 year from the date of receipt.
After reconstitution, the protein solution is stable at -20℃ for 3 months, at 2-8℃ for up to 1 week.
Avoid repeated freeze/thaw cycles.

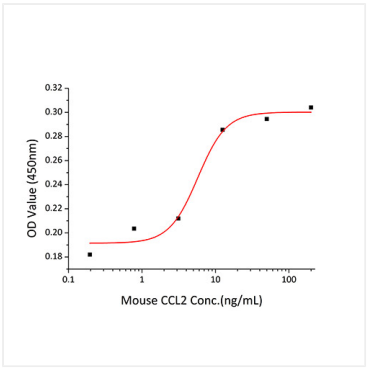
Validation Data



Recombinant Mouse CCL2/MCP-1 Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.



Recombinant Mouse CCL2 inhibit the proliferation of HUVEC(Human Umbilical Vein Endothelial Cells).The ED_{50} for this effect is 0.20-0.80 ng/mL.



Recombinant Mouse CCL2 chemoattract THP-1 cells. The ED_{50} for this effect is typically 2.87-11.48 ng/mL.