Recombinant Mouse CCL2/MCP-1 Protein

Catalog No.: RP01626

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Sequence Information

Species	Gene ID
Mouse	20296
Swiss Prot	**Tags**
P10148	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.

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.

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.

Shipping

Lyophilized proteins are shipped at ambient temperature.
Liquid proteins are shipped at frozen temperature with dry ice.
Upon receipt, store it immediately at the temperature recommended below.

Storage

Store at -20℃

Operational Notes

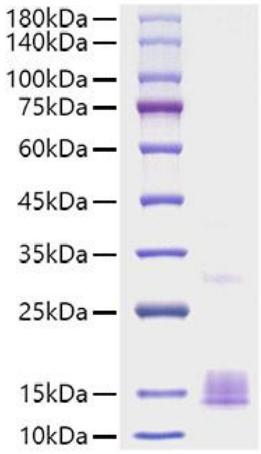
For your safety and health, please wear a lab coat and disposable gloves for handling.

Contact

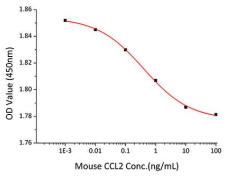
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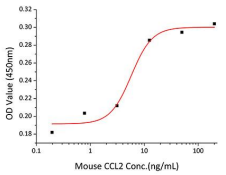
Validation Data



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.

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