Recombinant Human CCL2/MCP-1 Protein

Catalog No.: RP01411

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Sequence Information

Species
Human

Gene ID
6347

Swiss Prot
P13500

Tags
No tag

Synonyms
CCL2,GDCF-2,HC11,HSMCR30, MCAF,MCP-1,MCP1,SCYA2,SMC-CF

Product Information

Source
E. coli

Purification
≥ 90 % as determined by SDS-PAGE.

Calculated MW
8.69 kDa

Observed MW
13-14 kDa

Endotoxin
< 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 Human CCL2/MCP-1 Protein is produced by *E. coli* expression system. The target protein is expressed with sequence (Gln24-Thr99) of human CCL2/MCP-1 (Accession #NP_002973.1) 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 0.53-2.12 ng/mL.
2.Measured by its ability to chemoattract THP-1 cells. The ED_{50} for this effect is typically 1.01-4.04 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℃

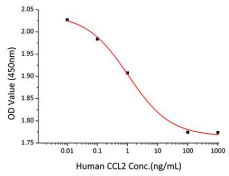
Operational Notes
For your safety and health, please wear a lab coat and disposable gloves for handling.

Contact

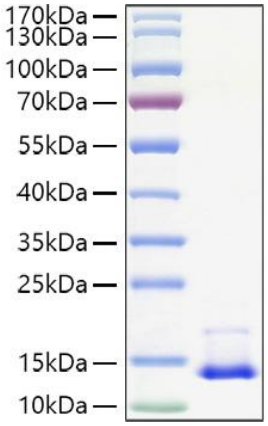
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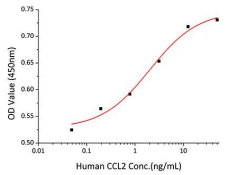
Validation Data



Recombinant Human CCL2 inhibit the proliferation of HUVEC(Human Umbilical Vein Endothelial Cells).The ED_{50} for this effect is 0.53-2.12 ng/mL.



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



Recombinant Human CCL2 chemoattract THP-1 cells. The ED_{50} for this effect is typically 1.01-4.04 ng/mL.