

RP01411

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Recombinant Human CCL2/MCP-1 Protein

Catalog No.: RP01411

Recombinant

1 Publications

Sequence Information

Species	Gene ID	Swiss Prot
<I>E. coli</I>	6347	P13500

Tags

No tag

Synonyms

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

Product Information

Source

<I>E. coli</I>

Purification

> 90% by SDS-PAGE.

Endotoxin

<1EU/μg

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 stabilizer (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.

Bio-Activity

1. Measured by the ability to inhibit the proliferation of HUVEC (Human Umbilical Vein Endothelial Cells). The ED₅₀ for this effect is 0.53-2.12 ng/mL. 2. Measured by its ability to chemoattract THP-1 cells. The ED₅₀ for this effect is typically 1.01-4.04 ng/mL.

Storage

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

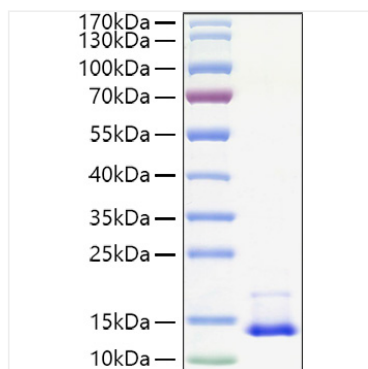
Contact



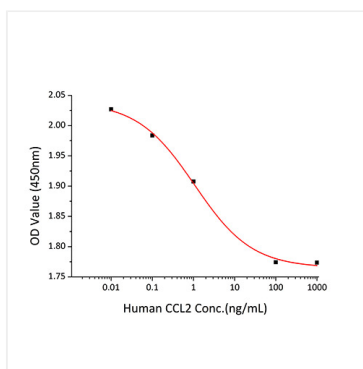
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* For your safety and health, please wear a lab coat and disposable gloves when handling.

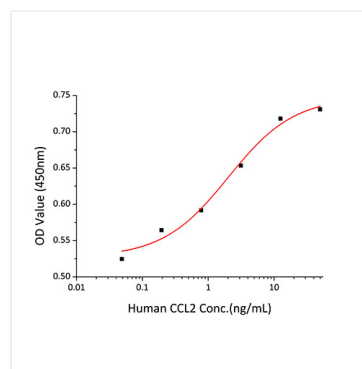
Validation Data



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



Recombinant Human CCL2 inhibit the proliferation of HUVEC(Human Umbilical Vein Endothelial Cells).The ED₅₀ for this effect is 0.53-2.12 ng/mL.



Recombinant Human CCL2 chemoattract THP-1 cells. The ED₅₀ for this effect is typically 1.01-4.04 ng/mL.