

# Active Recombinant Human CCL2/MCP-1 Protein

Catalog No.: RP01411 **Recombinant**

## Sequence Information

Species	Gene ID	Swiss Prot
Human	6347	P13500

### Tags

No tag

### Synonyms

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

## Product Information

Source	Purification
<i>E. coli</i>	> 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 freeze-thaw cycles.

## Contact

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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

Active 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 ED<sub>50</sub> for this effect is 0.53-2.12 ng/mL. 2. Measured by its ability to chemoattract THP-1 cells. The ED<sub>50</sub> for this effect is typically 1.01-4.04 ng/mL.

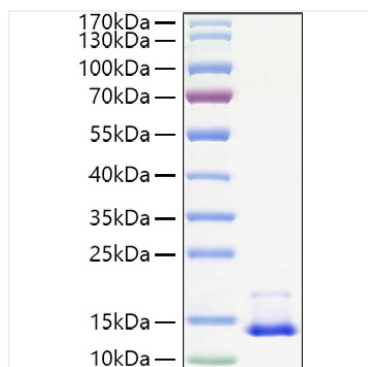
### Storage

Store the lyophilized protein at -20°C to -80°C for long term.

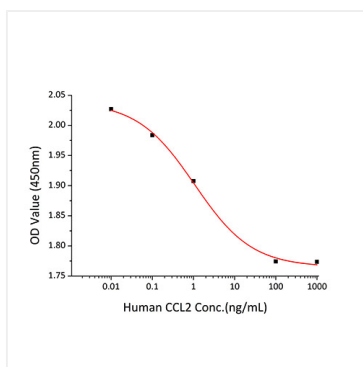
After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.

Avoid repeated freeze/thaw cycles.

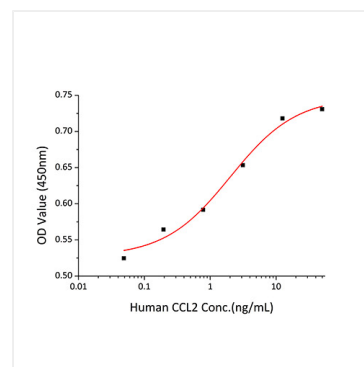
## Validation Data



Active Recombinant Human CCL2/MCP-1 Protein was determined by SDS-PAGE with Coomassie Blue, showing a band at 13-14kDa.



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