

RP01657

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Recombinant Human CCL2/MCP-1 Protein

Catalog No.: RP01657

Recombinant

Sequence Information

Species Gene ID Swiss Prot

<I>Pichia</I> I6347 P13500

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Tags

NO-tag

Synonyms

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

Product Information

Source

<I>Pichia</I>

Purification

> 95% by SDS-
PAGE.

Endotoxin

<0.1EU/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

Monokine with inflammatory and chemokinetic properties. Binds to CCR5. One of the major HIV-suppressive factors produced by CD8+ T-cells. Recombinant MIP-1-beta induces a dose-dependent inhibition of different strains of HIV-1, HIV-2, and simian immunodeficiency virus (SIV). The processed form MIP-1-beta(3-69) retains the abilities to induce down-modulation of surface expression of the chemokine receptor CCR5 and to inhibit the CCR5-mediated entry of HIV-1 in T-cells. MIP-1-beta(3-69) is also a ligand for CCR1 and CCR2 isoform B.

Basic Information

Description

Recombinant Human CCL2/MCP-1 Protein is produced by *Pichia* 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

Measured by its ability to chemoattract THP-1 cells. The ED50 for this effect is typically 13.56-54.24 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.

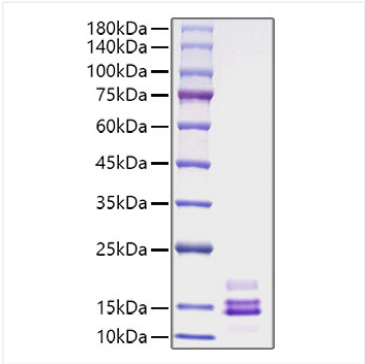
Contact



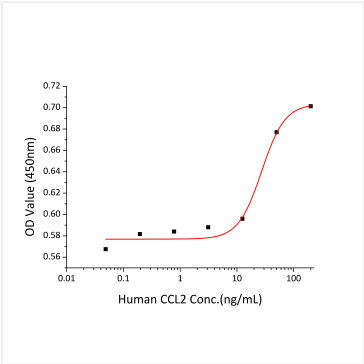
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* For your safety and health, please wear a lab coat and disposable gloves when handling.

Validation Data



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



Recombinant Human CCL2/MCP-1 chemoattract THP-1 cells. The ED50 for this effect is typically 13.56-54.24 ng/mL.