

Recombinant Mouse CCL3/MIP-1 alpha Protein

Catalog No.: RP00747 **Recombinant**

Sequence Information

Species	Gene ID	Swiss Prot
Mouse	20302	P10855

Tags

N-6×His

Synonyms

C-C motif chemokine 3; Heparin-binding chemotaxis protein; Macrophage inflammatory protein 1-alpha; MIP1-a; chemokine (C-C motif) ligand 3; LD78a; LD78 alpha; MIP-1 alpha; Scya3

Product Information

Source	Purification
<i>E. coli</i>	> 95% by SDS-PAGE.

Calculated MW	Observed MW
10.8 kDa	15 kDa

Endotoxin

< 1 EU/μg of the protein by LAL method.

Formulation

Lyophilized from a 0.2 μm filtered solution of 20mM Tris, 150mM NaCl, 5% Trehalose, 1mM EDTA, pH 8.0. Contact us for customized product form or formulation.

Reconstitution

Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water.

Contact

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Background

C-C Motif Chemokine 3 (MIP-1 alpha, CCL3) is a member of the beta or CC subfamily of chemokines and is closely related to CCL4/MIP-1 beta. CCL3 expression can be induced in a variety of hematopoietic cells, fibroblasts, smooth muscle cells, and epithelial cells. Mature mouse CCL3 shares 73%, 91%, and 82% amino acid sequence identity with human, rat, and cotton rat CCL3, respectively. CCL3 exerts its biological function through interactions with CCR1, CCR3, and CCR5. It is cleared from the extracellular space by internalization via the decoy chemokine receptor D6. CCL3 promotes the chemoattraction, adhesion to activated vascular endothelium, and cellular activation of many hematopoietic cell types including activated T cells, NK cells, neutrophils, monocytes, immature dendritic cells, and eosinophils. CCL3 is also known as stem cell inhibitor (SCI) and can inhibit the proliferation of hematopoietic progenitor cells. CCL3 bioactivity contributes to tumor metastasis and the inflammatory components of viral infection, rheumatoid arthritis, and hepatitis, although it also can suppress the replication of HIV.

Basic Information

Description

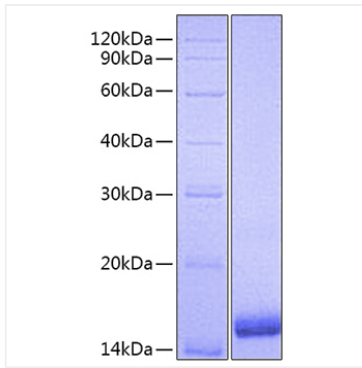
Recombinant Mouse CCL3/MIP-1 alpha Protein is produced by *E. coli* expression system. The target protein is expressed with sequence (Ala24-Ala92) of mouse CCL3/MIP-1 alpha (Accession #P10855) fused with an initial Met at the N-terminus and a 6×His tag at the N-terminus.

Bio-Activity

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.

Validation Data



Recombinant Mouse CCL3/MIP-1 alpha
Protein was determined by SDS-PAGE under
reducing conditions with Coomassie Blue.