

MIP-1 α /CCL3 (N-6His), Mouse, Recombinant

Cat. No. : PCK231

General Information

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
Species	Mouse
Expression host	E.coli
Sequence	Ala24-Ala92
Accession	P10855
Tag	N-6His
Mol mass	10.8 kDa
Expiration date	12 months

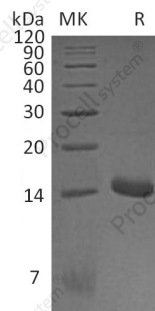
Product feature

Purity	> 95% as determined by reducing SDS-PAGE.
Endotoxin (EU/μg)	< 0.1
Storage	Lyophilized protein should be stored at -5~-20°C, stable for one year after receipt. Reconstituted protein solution can be stored at 2-8°C for 2-7 days. Aliquots of reconstituted samples are stable at -5~-20°C for 3 months.
Shipping	Ice bag
Formulation	Lyophilized from a 0.2 μ m filtered solution of 20 mM Tris-HCl, 150 mM NaCl, 5% Trehalose, 1 mM EDTA, pH 8.0.
Reconstitution	Always centrifuge tubes before opening. Do not mix by vortex or pipetting. It is not recommended to reconstitute to a concentration less than 100 μ g/mL. Dissolve the lyophilized protein in sterile water. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.

Background

C-C Motif Chemokine 3 (MIP-1 α , 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 functions 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.

SDS-PAGE



Procell[®]system

Procell[®]system