

Recombinant Mouse CXCL4/PF-4 Protein

Catalog No.: RP01924 **Recombinant**

Sequence Information

Species	Gene ID	Swiss Prot
Mouse	56744	Q9Z126

Tags

C-His

Synonyms

Pf4; Cxcl4; Scyb4; Platelet factor 4; PF-4; C-X-C motif chemokine 4

Product Information

Source	Purification
<i>Pichia</i>	> 90% by SDS-PAGE.

Calculated MW	Observed MW
9.04 kDa	15-20 kDa

Endotoxin

< 0.1EU/μg of the protein by LAL method

Formulation

Lyophilized from 0.22 μm filtered solution in 20mM pb, 150mM NaCl, 1mM EDTA (pH 6.0). Normally 8% trehalose is added as protectant before lyophilization.

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.

Contact

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Background

CXCL4/PF-4, Chemokine released during platelet aggregation that plays a role in different biological processes including hematopoiesis, cell proliferation, differentiation, and activation. Acts via different functional receptors including CCR1, CXCR3A or CXCR3B. Upon interaction with CXCR3A receptor, induces activated T-lymphocytes migration mediated via downstream Ras/extracellular signal-regulated kinase (ERK) signaling. Neutralizes the anticoagulant effect of heparin by binding more strongly to heparin than to the chondroitin-4-sulfate chains of the carrier molecule. Plays a role in the inhibition of hematopoiesis and in the maintenance of hematopoietic stem cell (HSC) quiescence. Chemotactic for neutrophils and monocytes via CCR1. Inhibits endothelial cell proliferation. In cooperation with toll-like receptor 8/TLR8, induces chromatin remodeling and activates inflammatory gene expression via the TBK1-IRF5 axis. In addition, induces myofibroblast differentiation and collagen synthesis in different precursor cells, including endothelial cells, by stimulating endothelial-to-mesenchymal transition.

Basic Information

Description

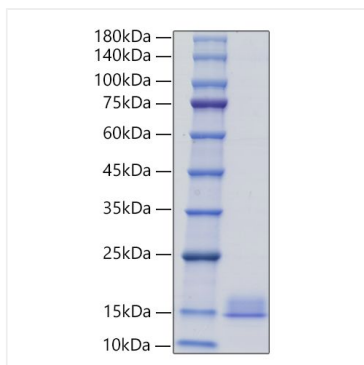
Recombinant Recombinant Mouse CXCL4/PF-4 Protein is produced by *Pichia* expression system. The target protein is expressed with sequence (Val30-Ser105) of Mouse CXCL4/PF-4 (Accession #NP_064316.1) fused with a His tag at the C-terminus.

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 CXCL4/PF-4 Protein was determined by SDS-PAGE with Coomassie Blue, showing a band at 15-20 kDa.