Recombinant Mouse CXCL4/PF-4 Protein

Catalog No.: RP01924

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Sequence Information

Species
Mouse

Gene ID
56744

Swiss Prot
Q9Z126

Tags
C-His

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

Product Information

Source
Pichia

Purification
≥ 90 % as determined by SDS-PAGE.

Calculated MW
9.04 kDa

Observed MW
15-20 kDa

Endotoxin
< 0.1 EU/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 stablizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

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.

Activity

Shipping
Lyophilized proteins are shipped at ambient temperature.
Liquid proteins are shipped at frozen temperature with dry ice.
Upon receipt, store it immediately at the temperature recommended below.

Storage
Store at -20℃

Operational Notes
For your safety and health, please wear a lab coat and disposable gloves for handling.

Contact

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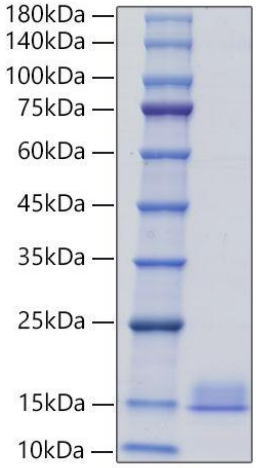
For research use only. Not for therapeutic or diagnostic purposes.
Please visit http://abclonal.com for a complete listing of recommended products.

Validation Data



Recombinant Mouse CXCL4/PF-4 Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.