

Recombinant Mouse CXCL4/PF-4 Protein

Catalog No.: RP03170 **Recombinant**

Sequence Information

Species	Gene ID	Swiss Prot
Mouse	56744	Q9Z126

Tags

C-hFc

Synonyms

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

Product Information

Source	Purification
HEK293 cells	PBS

Calculated MW	Observed MW
34.17 kDa	40-45 kDa

Endotoxin

<0.01 EU/ug

Formulation

Lyophilized from 0.22 µm filtered solution in PBS (pH 7.4). 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

Platelet factor-4 is a 70-amino acid protein that is released from the alpha-granules of activated platelets and binds with high affinity to heparin. Its major physiologic role appears to be neutralization of heparin-like molecules on the endothelial surface of blood vessels, thereby inhibiting local antithrombin III activity and promoting coagulation. As a strong chemoattractant for neutrophils and fibroblasts, PF4 probably has a role in inflammation and wound repair.

Basic Information

Description

Recombinant Mouse CXCL4/PF-4 Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Val30-Ser105) of Mouse CXCL4/PF-4 (Accession #NP_064316.1) fused with a hFc at the C-terminus.

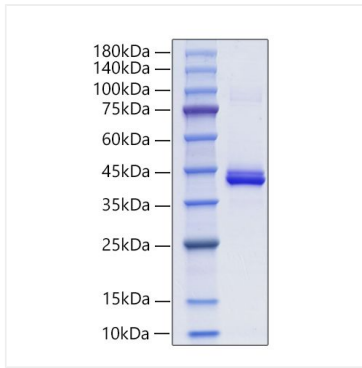
Bio-Activity

Measured by its binding ability in a functional ELISA. Immobilized Human CCL5 (Catalog: RP01750LQ) at 5 µg/mL (100 µL/well) can bind Mouse CXCL4(Catalog: RP03170) with a linear range of 10-252.6 ng/mL.

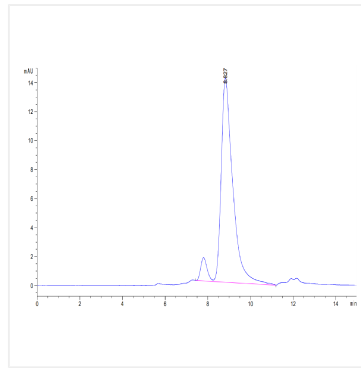
Storage

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.

Validation Data



Recombinant Mouse CXCL4/PF-4 Protein 1/FSTL1 Protein was determined by SDS-PAGE with Coomassie Blue, showing a band at 40-45kDa.



The purity of Mouse CXCL4 is greater than 95% as determined by SEC-HPLC.