# Recombinant Human CXCL4/PF4 Protein (His Tag)

Catalog Number: PKSH032302 1 Publications



Note: Centrifuge before opening to ensure complete recovery of vial contents.

#### **Description**

**Synonyms** Platelet Factor 4;PF-4;C-X-C Motif Chemokine 4;Iroplact;Oncostatin-

A;PF4;CXCL4;SCYB4

**Species** Human

**Expression Host** HEK293 Cells **Sequence** Glu32-Ser101 Accession P02776 Calculated Molecular Weight 8.8 kDa Observed molecular weight 10-14 kDa

## **Properties**

Tag

> 95 % as determined by reducing SDS-PAGE. **Purity** 

C-His

**Endotoxin** < 1.0 EU per µg of the protein as determined by the LAL method.

Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to Storage

-80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots

of reconstituted samples are stable at < -20°C for 3 months.

**Shipping** This product is provided as lyophilized powder which is shipped with ice packs.

**Formulation** Lyophilized from a 0.2 µm filtered solution of 20mM PB, 150mM NaCl, 5%

Trehalose, 5% Mannitol, 1mM EDTA, 0.02% Tween 80, pH6.0.

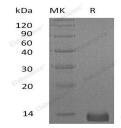
Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as

protectants before lyophilization.

Please refer t

Please refer to the printed manual for detailed information. Reconstitution

#### Data



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## **Background**

Human Chemokine (C-X-C motif) Ligand 4 (CXCL4) is expressed in megakaryocytes and stored in the alpha-granules of platelets. CXCL4 contains several heparin-binding sites at the C-terminal region and binds heparin with high affinity. The active CXCL4 protein is a tetramer. Human and mouse CXCL4 share 64% sequence identity. CXCL4 is chemotactic for neutrophils, fibroblasts and monocytes and plays a critical role in inflammation and wound repair. CXCL4 functions via a splice variant of the chemokine receptor CXCR3, known as CXCR3B. The major physiologic role of CXCL4 appears to be neutralization of heparin-like molecules on the endothelial surface of blood vessels, thereby inhibiting local

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antithrombin III activity and promoting coagulation. In contrast to other CXC chemokines, CXCL4 lacks chemotactic activity for polymorphonuclear granulocytes.

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