

Recombinant Human CXCL4/PF4 Protein (His Tag)

Catalog Number:PKSH032302

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

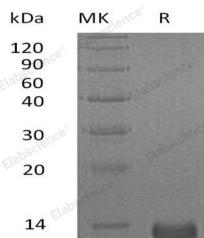
Description

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
Tag	C-His

Properties

Purity	> 95 % as determined by reducing SDS-PAGE.
Endotoxin	< 1.0 EU per µg of the protein as determined by the LAL method.
Storage	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -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
Reconstitution	Please refer to the printed manual for detailed information.

Data



> 95 % as determined by reducing SDS-PAGE.

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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