

**Synonym**

PF4,CXCL4,MGC138298,SCYB4, C-X-C motif chemokine 4, Iroplact, Oncostatin-A

**Source**

Human CXCL4, His Tag(CX4-H52H9) is expressed from human 293 cells (HEK293). It contains AA Glu 32 - Ser 101 (Accession # [P02776-1](#)). Predicted N-terminus: Glu 32

**Molecular Characterization**

CXCL4(Glu 32 - Ser 101)  
P02776-1 Poly-his

This protein carries a polyhistidine tag at the C-terminus.

The protein has a calculated MW of 9.7 kDa. The protein migrates as 13 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.

**Endotoxin**

Less than 1.0 EU per µg by the LAL method.

**Purity**

>95% as determined by SDS-PAGE.

**Formulation**

Lyophilized from 0.22 µm filtered solution in 10 mM Sodium Citrate,150 mM NaCl,pH5.0 with trehalose as protectant.

Contact us for customized product form or formulation.

**Reconstitution**

Please see Certificate of Analysis for specific instructions.

*For best performance, we strongly recommend you to follow the reconstitution protocol provided in the CoA.*

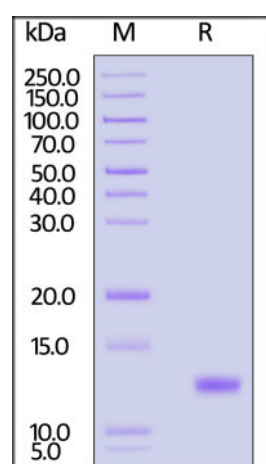
**Storage**

For long term storage, the product should be stored at lyophilized state at -20°C or lower.

*Please avoid repeated freeze-thaw cycles.*

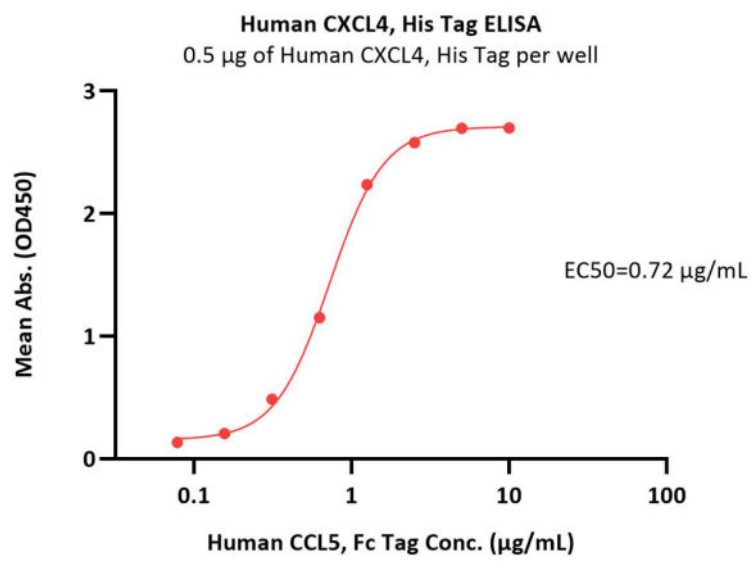
This product is stable after storage at:

- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

**SDS-PAGE**

Human CXCL4, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 95%.

**Bioactivity-ELISA**



Immobilized Human CXCL4, His Tag (Cat. No. CX4-H52H9) at 5 µg/mL (100 µL/well) can bind Human CCL5, Fc Tag (Cat. No. CC5-H5251) with a linear range of 0.078-1.25 µg/mL (QC tested).

## Background

CXCL4, or Platelet factor 4 (PF4), is a small cytokine belonging to the CXC chemokine family. This chemokine is released from the alpha granules of activated platelets in the form of a homotetramer which has high affinity for heparin and is involved in platelet aggregation. CXCL4 is chemotactic for neutrophils and monocytes and also functions as an inhibitor of hematopoiesis, angiogenesis and T-cell function. CXCL4/PF4 is up-regulated in human liver fibrosis and that it plays a nonredundant, functional role in experimental liver fibrosis by mediating stellate cell proliferation, migration, and intrahepatic immune cell recruitment.

## Clinical and Translational Updates

Please contact us via [TechSupport@acrobiosystems.com](mailto:TechSupport@acrobiosystems.com) if you have any question on this product.