



## Platelet Factor-4 (CXCL4), human (HuPF-4)

**Catalog No:** 94840  
**Lot No:** XXXXX  
**Source:** Human platelets  
**Synonyms:** CXCL4, PF-4, PF4, Iroplact, Oncostatin-A, SCYB4, MGC138298

### 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. Oncostatin-A is a member of the CXC chemokine family. Human PF4 is used for the proof of heparin-induced thrombocytopenia. Furthermore it is used as an inhibitor in the angiogenesis during tumor therapy.

### Description

Human PF-4 is a 7.8 kDa protein consisting of 70 amino acid residues.

### Physical Appearance

Sterile filtered white lyophilized powder.

### Formulation

The CXCL4 protein was lyophilized in PBS buffer pH 7.4.

### Solubility

It is recommended to reconstitute the lyophilized CXCL4 in sterile 18 M $\Omega$ -cm H<sub>2</sub>O not less than 100  $\mu$ g/ml, which can then be further diluted to other aqueous solutions.

### Stability

Human CXCL4, although stable at 25°C 1 week, should be stored desiccated below -18°C. Please prevent freeze-thaw cycles.

### Purity

Greater than 95.0% as determined by (a) Analysis by RP-HPLC, (b) Analysis by SDS-PAGE.

### Amino Acid Sequence

The sequence of the first four N-terminal amino acids was determined and was found to be Glu-Ala-Glu-Glu.

### Activity

Binding of HIT-antibodies.

### Usage

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