

## 32-1979: PF 4 Recombinant Protein

**Alternative Name :** CXCL4,PF-4,PF4,Iroplact,Oncostatin-A,SCYB4,MGC138298.

### Description

Source : Escherichia Coli. CXCL4 Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 70 amino acids and having a molecular mass of 7.8 kDa. 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.

### Product Info

<b>Amount :</b>	20 µg
<b>Purification :</b>	Greater than 95.0% as determined by:(a) Analysis by RP-HPLC.(b) Analysis by SDS-PAGE.
<b>Content :</b>	The CXCL4 protein was lyophilized after extensive dialysis against 50mM Tris-HCl pH 8.0 and 150mM NaCl buffer.
<b>Storage condition :</b>	Lyophilized CXCL4 although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution CXCL4 should be stored at 4°C between 2-7 days and for future use below -18°C.For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).Please prevent freeze-thaw cycles.
<b>Amino Acid :</b>	The sequence of the first four N-terminal amino acids was determined and was found to be Glu-Ala-Glu-Glu-Asp.

### Application Note

It is recommended to reconstitute the lyophilized CXCL4 in sterile 18M $\Omega$ -cm H<sub>2</sub>O not less than 100 $\Omega$ µg/ml, which can then be further diluted to other aqueous solutions. The ED<sub>50</sub> of CXCL4 as determined by its ability to inhibit human FGF basic dependent proliferation of NR6R3T3 mouse fibroblasts was found to be 5-15  $\Omega$ µg/ml.

