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## Product Data Sheet

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Product Name: PF 4 Human  
 Cat. No.: GP21198  
 Batch No.: 1

### Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped at Room temp.
Synonyms	CXCL4; PF-4; PF4; Iroplact; Oncostatin-A; SCYB4; MGC138298.		
Amino Acid Sequence	The sequence of the first four N-terminal amino acids was determined and was found to be Glu-Ala-Glu-Glu-Asp.		
Solubility	It is recommended to reconstitute the lyophilized CXCL4 in sterile 18MΩ-cm H <sub>2</sub> O not less than 100μg/ml, which can then be further diluted to other aqueous solutions.		
Formulation	The CXCL4 protein was lyophilized after extensive dialysis against 50mM Tris-HCl pH 8.0 and 150mM NaCl buffer.		

### Introduction

Platelet factor-4 is a 70-amino acid protein that is released from the alpha-granules of activated platelets. Its major physiologic role appears to be neutralization of 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. Furthermore it is used as an inhibitor in the angiogenesis during tumor therapy.

### Biological Activity

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 μg/ml.

### Stability

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-

**Caution: Product has not been fully validated for medical applications. For research use only.**

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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.

### Background

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.

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