
Product Data Sheet

Product Name: PF4 Bovine
 Cat. No.: GP26104
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	atRoomtemp.
Synonyms	CXCL4, PF-4, PF4, Iroplact, Oncostatin-A, SCYB4, MGC138298.		
Amino Acid Sequence	ESSFPATFVP LPADSEGGED EDLQCVCLKT TSGINPRHIS SLEVIGAGTH CPSPQLLATAK KTGRKICLDQ QRPLYKKILK KLLDGDES.		
Solubility	It is recommended to reconstitute the lyophilized Platelet Factor-4 in sterile 18MΩ-cm H ₂ O not less than 100μg/ml, which can then be further diluted to other aqueous solutions.		
Formulation	Lyophilized from a 0.2μm filtered concentrated solution in 20 mM PB and 500mM NaCl, pH 7.0.		

Introduction

Platelet factor-4 is a 70-amino acid protein that is released from the alpha-granules of activated platelets. PF4's 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 biological activity determined by a chemotaxis bioassay using human neutrophils is 10-100ng/ml.

Stability

Lyophilized CXCL4 although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution Platelet Factor-4 should be stored at 4°C

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

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between 2-7 days and for future use below -18°C . Please prevent freeze-thaw cycles.

Background

Platelet Factor-4 (CXCL4) Bovine Recombinant produced in E.Coli is a non-glycosylated polypeptide chain containing 88 amino acid and having a molecular mass of approximately 9.5kDa. PF4 is purified by proprietary chromatographic techniques.

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