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- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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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 MΩ-cm H_2O not less than 100 µg/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
This product is offered by Biomol for research purposes only. Not for diagnostic purposes or human use. It may not be resold or used to manufacture commercial products without written approval of Biomol GmbH.