

Human PF-4

CATALOG #: 4356-20 20 µg
4356-1000 1 mg

LOT #: _____

SYNONYMS: CXCL4, PF-4, PF4, Iroplact, Oncostatin-A, SCYB4, MGC138298.

SOURCE: Human platelets

PURITY: > 95 % by SDS-PAGE and RP-HPLC

FORM: Lyophilized from PBS buffer, pH 7.4.

RECONSTITUTION:

Centrifuge the vial prior to opening. Reconstitute in sterile ddH₂O to a concentration ≥ 100 µg/ml. This solution can then be diluted into other aqueous buffers.

STORAGE CONDITIONS:

The lyophilized protein is best-stored desiccated at -20°C. Reconstituted human PF-4 should be stored at -20°C for future use. Avoid freeze/thaw cycles.

DESCRIPTION:

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

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 CONTROL:

Binding of HIT-antibodies.

RELATED PRODUCTS:

- Cell Fractionation System
 - Mitochondria/Cytosol Fractionation Kit
 - Nuclear/Cytosol Fractionation Kit
 - Membrane Protein Extraction Kit
 - Cytosol/Particulate Rapid Separation Kit
 - Mammalian Cell Extraction Kit
 - FractionPREP Fractionation System
- Cell Proliferation & Senescence
 - Quick Cell Proliferation Assay Kit
 - Senescence Detection Kit
 - High Throughput Apoptosis/Cell Viability Assay Kits
 - LDH-Cytotoxicity Assay Kit
 - Bioluminescence Cytotoxicity Assay Kit
 - Live/Dead Cell Staining Kit
- Growth Factors and Cytokines
- Chemokines
- Monoclonal and Polyclonal Antibodies

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