

Human Platelet Factor 4

Cat. No. PF4-52H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human PF-4 a7.8 kDa protein consisting of 70 amino acid residues.
Species	Human
Source	Human Platelets
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.
Amino Acid Sequence	The sequence of the first four N-terminal amino acids was determined and was found to be Glu-Ala-Glu-Glu.
Physical Appearance	Sterile Filtered white lyophilized powder.
Purity	Greater than 95.0% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.
Formulation	The protein was lyophilized in PBS buffer.

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Solubility	It is recommended to reconstitute the lyophilized CXCL4 in sterile 18 MΩ-cm H ₂ O not less than 100 g/ml, which can then be further diluted to other aqueous solutions.
Activity Control	Binding of HIT-antibodies.
Stability	Human CXCL4 although stable at 25°C 1 week, should be stored desiccated below -18°C. Please prevent freeze-thaw cycles.

GENE INFORMATION

Gene Name	PF4 platelet factor 4 [Homo sapiens]
Synonyms	PF4; platelet factor 4; CXCL4; SCYB4; MGC138298; Iroplact; Oncostatin-A; C-X-C motif chemokine 4; chemokine (C-X-C motif) ligand 4
Gene ID	5196
mRNA Refseq	NM_002619
Protein Refseq	NP_002610
MIM	173460
UniProt ID	P02776
Chromosome Location	4q12-q21
Pathway	Chemokine signaling pathway; Cytokine-cytokine receptor interaction; Hemostasis; Signaling by GPCR

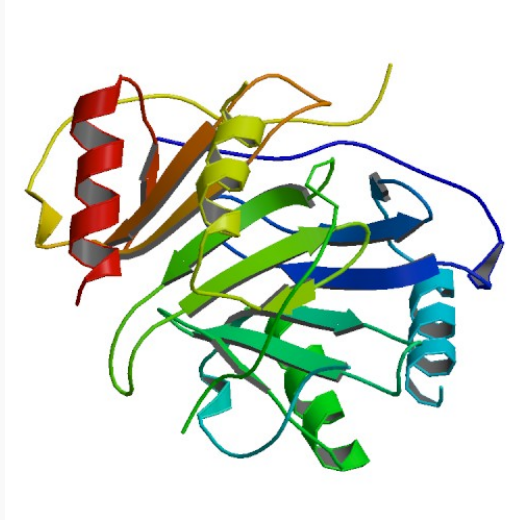
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Function chemokine activity; heparin binding

PDB rendering based on 1f9q.



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