Active Recombinant Human Platelet Factor 4

Cat. No. PF4-194H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	A DNA sequence encoding the human CXCL4 (NP_002610.1) (Glu 32 - Ser 101) was expressed
Species	Human
Source	Human
ProteinLength	32-101 a.a.
Description	Platelet factor 4 (PF4) is a 70-amino acid protein belonging to the CXC chemokine family also known as chemokine (C-X-C motif) ligand 4 (CXCL4) . 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. PF4 is the antigen in heparin-induced thrombocytopenia, an idiosyncratic autoimmune reaction to the administration of the anticoagulant heparin. Its autoantibodies have been found in patients with thrombosis and features resembling HIT but no prior administration of heparin.
Form	Lyophilized from sterile PBS , pH 7.4 Normally 5 % - 8 % trehalose and mannitol are added as protectants before lyophilization. Specific concentrations are included in the hardcopy of COA. Please contact us for any concerns or special requirements.
Purity	> 97 % as determined by SDS-PAGE
Bio-activity	The ED50 for this effect is typically 4.2 μg/mL; The EC50 of biotinylated human

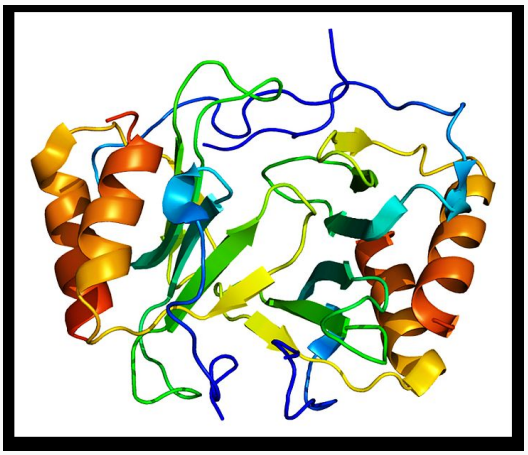
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	VEGF165 is 9.97 μg/mL
Endotoxin	1.0 EU per μg protein as determined by the LAL method
Stability	Samples are stable for up to twelve months from date of receipt at -70 μ
Predicted N terminal	Met
Molecular Mass	The recombinant human CXCL4 comprises 71 amino acids with a predicted molecular mass of 7.8 kDa as estimated in SDS-PAGE under reducing conditions
Storage	Store it under sterile conditions at -70μ upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage. Avoid repeated freeze-thaw cycles.

GENE INFORMATION

Gene Name	PF4 platelet factor 4 [Homo sapiens]
Official Symbol	PF4
Synonyms	PF4; platelet factor 4; chemokine (C-X-C motif) ligand 4; CXCL4; iroplact ; SCYB4; oncostatin-A; Oncostatin-A; PF-4; Iroplact ; C-X-C motif chemokine 4; Oncostatin-A; MGC138298; Platelet factor 4; OTTHUMP00000160478
Gene ID	5196
mRNA Refseq	NM_002619
Protein Refseq	NP_002610
MIM	173460

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UniProt ID	P02776
Chromosome Location	4q12-q21
Pathway	Chemokine signaling pathway; Cytokine-cytokine receptor interaction; Hemostasis; Signaling by GPCR
Function	chemokine activity; heparin binding
PDB rendering based on 1f9q.	

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