

PF4

Native Human Platelet Factor 4

Catalog No.	CRP271A CRP271B CRP271C	Quantity:	100 µg 500 µg 1.0 mg
Alternate Names:	CXCL4, C-X-C motif chemokine 4, SCYB4		
Description:	Platelet Factor 4 (PF4) is a member of the CXC chemokine family. This chemokine is released from the alpha granules of activated platelets in the form of a homotetramer which has high affinity for heparin and is involved in platelet aggregation. This protein is chemotactic for numerous other cell type and also functions as an inhibitor of hematopoiesis, angiogenesis and T-cell function. The protein also exhibits antimicrobial activity against Plasmodium falciparum.		
Gene ID:	5196		
Concentration:	≥ 2.0 mg/mL		
Source:	Human plasma: Human PF-4 is prepared from the supernatant of thrombin-activated platelets.		
Molecular Weight:	29 kDa		
Purification:	Heparin-agarose affinity chromatography		
Purity:	>95% by SDS-PAGE		
Extinction Coefficient:	$E^{0.1\%}_{280nm} = 0.26$		
Formulation:	Frozen liquid solution in 0.025 M HEPES, 2.0 M NaCl, pH 7.4.		
Specific Activity:	≥ 100 U/mg (1 unit will neutralize 1 U of heparin in 1 mL of normal plasma.) Heparin-neutralizing activity is verified by clotting assay.		
Storage & Stability:	When stored at -80°C upon receipt, the product is stable for 3 years from the date of delivery. With initial thaw of product, prepare working aliquots and store at -80°C. Avoid repeated freeze-thaw cycles.		
Handling:	Centrifuge vial prior to opening. Handle as a potentially hazardous substance. This material should be handled at Bio-Safety Level 2 (BSL 2) as recommended for potentially infectious human serum or blood specimen in the CCD/NIH manual "Biosafety in Microbiological and Biomedical Laboratories", 2009.		

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