

Human CXCL4 Protein, His tag (Animal-Free)

Cat #: PRP1102

Size: 5 µg/20 µg/100 µg/1 mg

Product Information

	Product Name: Human CXCL4 Protein, His tag (Animal-Free)		
REF	Catalog Number: PRP1102	LOT	Lot Number: Refer to product label
	Purity: > 98 % as determined by SDS-PAGE		
	Storage: Store at -20°C		Preparation method: E.coli
	Shipping: The product is shipped at ambient temperature.		

Background: CXCL4 suppresses the hematopoiesis. CXCL4, also known as platelet factor 4 (PF-4), is one of the most plentiful platelet chemokines. Depending on the cell type, CXCL4 may have several biological functions. CXCL4 is mainly produced in megakaryocytes, released from the α-granules of platelets as a tetramer at micromolar concentrations depending on platelet activation. CXCL4 has both procoagulant and anticoagulant activities, thereby can bind heparin and neutralize the anticoagulant effect of heparin. In addition, CXCL4 also has functions such as inhibiting factor XII, and vitamin K dependent coagulation factor, and stimulating activated protein C generation. As a strong tumor inhibitor, CXCL4 can inhibit endothelial cell migration, proliferation, and in vivo angiogenesis through interfering with the angiogenic effect of growth factors such as FGF and VEGF.

Sequence: Amino acid sequence derived from Human CXCL4 (Glu32-Ser101) (P02776) was expressed with 6×His tag at the N-terminus.

Protein length: The recombinant Human CXCL4 consists of 70 amino acids and predicts a molecular mass of 8.58 kDa.

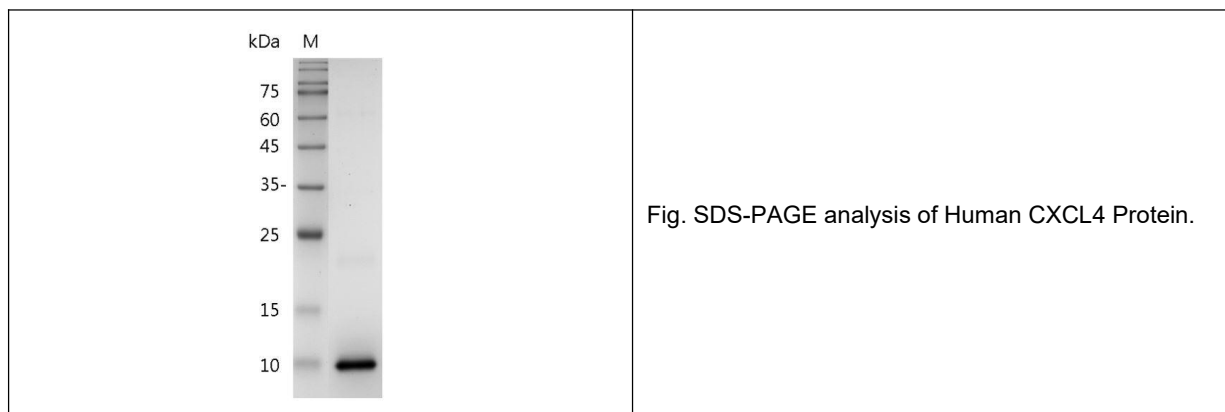
Biological Activity: Measured by its ability to inhibit human FGF-2-induced proliferation in HUVEC cells. The ED₅₀ for this effect is <5 µg/mL.

Endotoxin: <0.1 EU per 1 µg of the protein by the LAL method.

Formulation: Lyophilized from PBS, pH7.4.

Storage Instructions: Lyophilized protein product should be stored desiccated below -18°C. Upon reconstitution, the protein should be stored at 4°C between 2-7 days and for future use below -18°C. For long term storage it is recommended to add a carrier protein (5% HSA, 10% FBS or 0.1% BSA). Please prevent freeze-thaw cycles.

Usage notes: Always centrifuge tubes before opening. It is recommended to reconstitute the lyophilized recombinant protein to a concentration of 0.1-1 mg/mL using the buffer we provided, and keep at room temperature for at least 20 min to fully dissolve. Please avoid vortex vigorously.



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