PRODUCT INFORMATION

CXCL4 (C-X-C motif chemokine 4), Human

v. 231001

Catalog number	C01130-5UG / C01130-20UG / C01130-100UG
Package	5 μg / 20 μg / 100 μg
Description	CXCL4, also known as platelet factor 4 (PF-4), is one of the most plentiful platelet chemokines.Depending on the cell type, CSCL4 may has 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 have 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.
Source	*Escherichia coli*
Sequence	EAEEDGDLQCLCVKTTSQVRPRHITSLEVIKAGPHCPTAQLIATLKNGRKICLDL QAPLYKKIIKKLLES with polyhistidine tag at the N-terminus
Endotoxin level	<0.1 EU per 1 μg of the protein by the LAL method.
Activity	Measure by its ability to inhibit human FGF-2-induce proliferation in HUVEC cells. The ED_{50} for this effect is <5 μg/mL.
Purity	>98% as determined by SDS-PAGE.
Form	Lyophilized
Storage Buffer	Lyophilized from a 0.2 μm filtered solution of PBS, pH 7.4.
Reconstitution	It is recommended to reconstitute the lyophilized protein in sterile H_2O to a concentration not less than 200 μg/mL and incubate the stock solution for at least 20 min to ensure sufficient re-dissolved.
Stability & Storage	This product is stable after storage at: • -20°C for 12 months in lyophilized state from date of receipt. • -20°C or -80°C for 1 month under sterile conditions after reconstitution. Avoid repeated freeze/thaw cycles.

SDS-PAGE analysis of recombinant human CXCL4

For research use only.

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