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Recombinant Human CXCL4 protein(His Tag)

Catalog Number: PKSH034193

Note: Centrifuge before opening to ensure complete recovery of vial contents.

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Species Human

Source E.coli-derived Human CXCL4 protein Glu 32-Ser 101, with an N-terminal His

Calculated MW8.6 kDaObserved MW14 kDaAccessionP02776

Bio-activity Measure by its ability to inhibit human FGF-2-induce proliferation in HUVEC

cells. The ED₅₀ for this effect is \leq 5 µg/mL.

Properties

Purity > 98 % as determined by reducing SDS-PAGE.

Endotoxin < 0.1 EU per µg of the protein as determined by the LAL method.

Storage Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80

°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of

reconstituted samples are stable at < -20°C for 3 months.

Shipping This product is provided as lyophilized powder which is shipped with ice packs.

Formulation Lyophilized from sterile PBS, pH 7.4.

Normally 5% - 8% trehalose, mannitol and 0.01% Tween 80 are added as protectants

before lyophilization.

Please refer to the specific buffer information in the printed manual.

Reconstitution Please refer to the printed manual for detailed information.

Background

Human Chemokine (C-X-C motif) Ligand 4 (CXCLA) is expressed in megakaryocytes and stored in the alpha-granules of platelets. CXCLA contains several heparin-binding sites at the C-terminal region and binds heparin with high affinity. The active CXCLA protein is a tetramer. Human and mouse CXCLA share 64% sequence identity. CXCLA is chemotactic for neutrophils, fibroblasts and monocytes and plays a critical role in inflammation and wound repair. CXCLA functions via a splice variant of the chemokine receptor CXCR3, known as CXCR3B. The major physiologic role of CXCLA appears to be neutralization of heparin-like molecules on the endothelial surface of blood vessels, thereby inhibiting local antithrombin III activity and promoting coagulation. In contrast to other CXC chemokines, CXCLA lacks chemotactic activity for polymorphonuclear granulocytes.