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Recombinant Human CXCL4 protein(His Tag)

Catalog Number: PKSH034193

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

Description

Species Human

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

Calculated MW 8.6 kDa Observed MW 14 kDa Accession P02776

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

cells. The ED₅₀ for this effect is $<5 \mu g/mL$.

Properties

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

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

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

°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.

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

Lyophilized from sterile PBS, pH 7.4. **Formulation**

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.

Please refer to the printed manual for detailed information. Reconstitution

Background

Human Chemokine (C-X-C motif) Ligand 4 (CXCL4) is expressed in megakaryocytes and stored in the alpha-granules of platelets. CXCL4 contains several heparin-binding sites at the C-terminal region and binds heparin with high affinity. The active CXCL4 protein is a tetramer. Human and mouse CXCL4 share 64% sequence identity. CXCL4 is chemotactic for neutrophils, fibroblasts and monocytes and plays a critical role in inflammation and wound repair. CXCL4 functions via a splice variant of the chemokine receptor CXCR3, known as CXCR3B. The major physiologic role of CXCL4 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, CXCL4 lacks chemotactic activity for polymorphonuclear granulocytes.