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Platelet Factor 4, human recombinant (rHuPF-4)

Catalog No: 97207
Lot No: XXXXX
Source: *E. coli*
Synonyms: CXCL4, PF-4, PF4, Iroplact, Oncostatin-A, SCYB4, MGC138298

Background

Platelet factor-4 is a 70-amino acid protein that is released from the alpha-granules of activated platelets and binds with high affinity to heparin. Its major physiologic role appears to be neutralization of heparin-like molecules on the endothelial surface of blood vessels, thereby inhibiting local antithrombin III activity and promoting coagulation. As a strong chemoattractant for neutrophils and fibroblasts, PF4 probably has a role in inflammation and wound repair. Oncostatin-A is a member of the CXC chemokine family. Human PF4 is used for the proof of heparin-induced thrombocytopenia. Furthermore it is used as an inhibitor in the angiogenesis during tumor therapy.

Description

CXCL4 human recombinant produced in *E. coli* is a single, non-glycosylated polypeptide chain containing 70 amino acids and having a molecular mass of 7.8 kDa.

Physical Appearance

Sterile filtered white lyophilized powder.

Formulation

The CXCL4 protein was lyophilized after extensive dialysis against 50 mM Tris-HCl pH 8.0 and 150 mM NaCl buffer.

Solubility

It is recommended to reconstitute the lyophilized CXCL4 in sterile 18 MΩ-cm H_2O not less than 100 µg/ml, which can then be further diluted to other aqueous solutions.

Stability

Lyophilized CXCL4, although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution CXCL4 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 (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

Purity

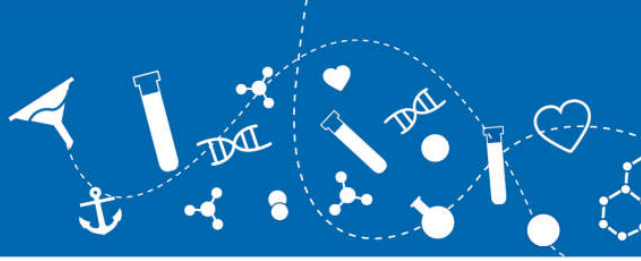
Greater than 95.0% as determined by (a) Analysis by RP-HPLC, (b) Analysis by SDS-PAGE.

Amino Acid Sequence

The sequence of the first four N-terminal amino acids was determined and was found to be Glu-Ala-Glu-Glu-Asp.

Activity

The ED50 of CXCL4 as determined by its ability to inhibit human FGF basic dependent proliferation of NR6R3T3 mouse fibroblasts was found to be 5 - 15 µg/ml.



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