



Platelet Factor-4 (CXCL4) Variant-1, His-Tag, human recombinant (rHuPF4variant-His)

Catalog No: 97332
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 chemocin 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 Variant-1 human recombinant produced in *E. coli* is a single, non-glycosylated polypeptide chain containing 77 amino acids and having a molecular mass of 8.7 kDa. CXCL4 Variant-1 is fused to 6xHis Tag at N-terminus and purified by proprietary chromatographic techniques.

Physical Appearance

Sterile filtered white lyophilized powder.

Formulation

The protein was lyophilized without additives.

Solubility

It is recommended to reconstitute the lyophilized CXCL4 in sterile 18 MΩ-cm H₂O not less than 100 µg/ml, which can then be further diluted to other aqueous solutions.

Stability

CXCL4, although stable at 25°C 1 week, should be stored desiccated below -18°C. Please prevent freeze-thaw cycles.

Purity

Greater than 95.0% as determined by SDS-PAGE.

Amino Acid Sequence

MHHHHHEAE EDGDLQCLCV KTTSQVRPRH ITSLEVIKAG PHCPTAQLIA TLKNGRKICL DLQALLYKKI IKEHLES

Usage

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