

## 32-6613: PF4 Bovine

**Application :** Functional Assay

**Alternative Name :** CXCL4, PF-4, PF4, Iroplact, Oncostatin-A, SCYB4, MGC138298.

### Description

Source: Escherichia Coli.

Sterile Filtered White lyophilized (freeze-dried) powder.

Platelet factor-4 is a 70-amino acid protein that is released from the alpha-granules of activated platelets. PF4's major physiologic role appears to be neutralization of 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. Furthermore, it is used as an inhibitor in the angiogenesis during tumor therapy.

Platelet Factor-4 (CXCL4) Bovine Recombinant produced in E.Coli is a non-glycosylated polypeptide chain containing 88 amino acid and having a molecular mass of approximately 9.5kDa. PF4 is purified by proprietary chromatographic techniques.

### Product Info

**Amount :** 50 µg / 100 µg

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

**Content :** Lyophilized from a 0.2µm filtered concentrated solution in 20 mM PB and 500mM NaCl, pH 7.0. It is recommended to reconstitute the lyophilized Platelet Factor-4 in sterile 18M Omega -cm H2O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.

**Storage condition :** Lyophilized CXCL4 although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution Platelet Factor-4 should be stored at 4°C between 2-7 days and for future use below -18°C. Please prevent freeze-thaw cycles.

**Amino Acid :** ESSFPATFVP LPADSEGGED EDLQCVCLKT TSGINPRHIS SLEVIGAGTH CPSPQLLATK KTGRKICLDQ QRPLYKKILK KLLDGDES.

### Application Note

The biological activity determined by a chemotaxis bioassay using human neutrophils is 10-100ng/ml.