

## Recombinant Mouse Platelet Factor-4 (rm PF-4 / CXCL4)

**Synonyms:** Iroplact, Oncostatin-A, SCYB4, MGC138298

**Introduction:** Platelet factor-4 is a 70-amino acid protein that is released from the alpha-granules of activated platelets. Its major physiologic role appears to be neutralization of molecules on the endothelial surface of blood vessels, thereby inhibiting local activity and promoting coagulation. As a strong chemoattractant for neutrophils and fibroblasts, PF4 probably has a role in inflammation and wound repair. PF4 is a member of the CXC chemocin family.

**Description:** Mouse recombinant PF-4 produced in *E. coli* is a single, non-glycosylated polypeptide chain containing 76 amino acids and having a molecular mass of 8.2 kDa.

**Source:** *Escherichia Coli*.

**Physical Appearance:** Sterile filtered white lyophilized (freeze-dried) powder.

**Formulation:** lyophilized from a 0.2µm filtered concentrated solution in 20mM PB, pH 7.4 and 1.0M NaCl. The sample size of 1µg contains Trehalose 5% (w/vol) for better recovery

**Solubility:** It is recommended to reconstitute the lyophilized rm PF-4 in sterile H<sub>2</sub>O not less than 100 µg/ml which can then be further diluted to other aqueous solutions.

**Stability:** Lyophilized rm PF-4 although stable at room temperature for 3 weeks, should be stored desiccated below -18° C. Upon reconstitution rm PF-4 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 97.0% as determined by RP-HPLC and by SDS-PAGE

**Amino Acid Sequence:** VTSAGPEESD GDLSCVCVKT ISSGIHLKHI TSLEVIKAGR HCAVPQLIAT LKNGRKICLD RQAPLYKKVI KKILES.

**Biological activity:** Determined by its ability to chemoattract human neutrophils using a concentration range of 10 – 100ng/ml

This material is offered for **research use only**. Not for use in human. For in vitro use only. ImmunoTools will not be held responsible for patent infringement or other violations that may occur with the use of our products.

<i>small</i>	5 µg	Cat.N°	12344810
<i>medium</i>	20 µg	Cat.N°	12344814

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