

Recombinant Mouse Platelet Factor 4

Cat. No. Pf4-152M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse CXCL4 produced in <i>E. Coli</i> is a single, non-glycosylated polypeptide chain containing 73 amino acids and having a molecular mass of 8.2 kDa.
Species	Mouse
Source	E.coli
Description	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 chemocine 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.
Amino Acid Sequence	MGPEESD GDLSVCVKI TSLEVIKAGR HCAVPQLIAT LKNGRKICLD RQAPLYKKVI KKILES.
Physical Appearance	Sterile Filtered white lyophilized powder.
Formulation	The Mouse CXCL4 protein was lyophilized from 1x PBS pH-7.4.

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Stability

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

GENE INFORMATION
Gene Name

Pf4 platelet factor 4 [*Mus musculus*]

Synonyms

Pf4; platelet factor 4; Cxcl4; Scyb4; PF-4; C-X-C motif chemokine 4; chemokine (C-X-C motif) ligand 4

Gene ID

56744

mRNA Refseq

NM_019932

Protein Refseq

NP_064316

UniProt ID

Q9Z126

Chromosome Location

5 E1

Pathway

Chemokine signaling pathway; Cytokine-cytokine receptor interaction

Function

chemokine activity; cytokine activity; heparin binding

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PDB rendering based
on 1f9q.



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