

Recombinant Mouse Pf4 protein

Cat. No. Pf4-611M Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse Pf4 protein was expressed in Escherichia coli.
Species	Mouse
Source	E.coli
ProteinLength	76
Description	CXCL4 (PF4) is a small cytokine belonging to the CXC chemokine family and it is also known as chemokine (C-X-C motif) ligand 4 (CXCL4). This chemokine is released from alpha-granules of activated platelets during platelet aggregation and neutralizes the anticoagulant effect of heparin because it binds more strongly to heparin than to the chondroitin-4-sulfate chains of the carrier molecule. CXCL4 interacts with a splice variant of the chemokine receptor CXCR3. Recombinant mouse CXCL4 contains 76 amino acids which is a single non-glycosylated polypeptide chain. Specifically, Human and mouse CXCL4 share about a 60 % identity.
Form	Lyophilized from a 0.2µm filtered concentrated solution in 20 mM PB, 1.5 M NaCl, pH 7.4.
Bio-activity	Fully biologically active when compared to standard. The biological activity determined by a chemotaxis bioassay using human neutrophils is in a concentration of 10-100ng/ml.
Molecular Mass	Approximately 8.2 kDa, a single non-glycosylated polypeptide chain containing 76

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	amino acids.
AA Sequence	VTSAGPEESDGDLSVCVVKTISSGIHLKHITSLEVIKAGRHC AVPQLIATLKNR KICL DRQAPLYKKVIKKILES
Endotoxin	Less than 1 EU/μg of rMuPF-4/CXCL4 as determined by LAL method.
Purity	>97% by SDS-PAGE and HPLC analysis.
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70 centigrade as supplied. 1 month, 2 to 8 centigrade under sterile conditions after reconstitution. 3 months, -20 to -70 centigrade under sterile conditions after reconstitution.
Reconstitution	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in sterile distilled water or aqueous buffer containing 0.1 % BSA to a concentration of 0.1-1.0 mg/mL. Stock solutions should be apportioned into working aliquots and stored at ≤-20 centigrade. Further dilutions should be made in appropriate buffered solutions.

GENE INFORMATION

Gene Name	Pf4
Official Symbol	Pf4
Synonyms	PF4; platelet factor 4; PF-4; C-X-C motif chemokine 4; chemokine (C-X-C motif) ligand 4; Cxcl4; Scyb4;
Gene ID	56744

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mRNA Refseq [NM_019932](#)

Protein Refseq [NP_064316](#)

UniProt ID [Q9Z126](#)

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