

Recombinant Bovine Platelet Factor-4/CXCL4 (Bovine PF-4/CXCL4)

Product Information

Product Name	Cat#	Size
Recombinant Bovine Platelet Factor-4/CXCL4 (Bovine PF-4/CXCL4)	90945ES10	10 µg
	90945ES60	100 µg
	90945ES76	500 µg

Product Description

CXCL4, also called PF4, is a small cytokine belonging to the CXC chemokine family and it is also known as chemokine (C-X-C motif) ligand. Mature mouse CXCL4 shares 76%, 88%, 64%, 64% and 63% amino acid sequence identity with human, rat, ovine, porcine and bovine CXCL4, respectively. Recombinant mouse CXCL4 contains 76 amino acids which is a single non-glycosylated polypeptide chain. CXCL4 can be antiproliferative and antiangiogenic, at least in part via interfering with FGF-2 and VEGF heparin binding and thus inhibiting their signaling. Tumor tissue revealed up-regulation of CXCL14 in cancer-associated fibroblasts of a majority of prostate cancer. Fibroblasts overexpressing CXCL14 promoted the growth of prostate cancer xenografts, and increased tumor angiogenesis and macrophage infiltration.

Product Properties

Synonyms	chemokine (C-X-C motif) ligand 4, C-X-C motif chemokine 4, CXCL4, CXCL4iropact, Iropact, MGC138298, Oncostatin-A, PF4, platelet factor 4
Accession	P02777
Unigene	Bt.11581.
Source	E.coli-derived bovine PF-4/CXCL4 protein, Glu1-Ser88.
Molecular Weight	Approximately 9.5 kDa.
AA Sequence	ESSFPATFVP LPADSEGGED EDLQCVCLKT TSGINPRHIS SLEVIGAGTH CPSPQLLATK KTGRKICLDQ QRPLYKKILK KLLDGDES
Tag	None
Physical Appearance	Sterile Filtered White lyophilized (freeze-dried) powder.
Purity	>95% by SDS-PAGE and HPLC analyses.
Biological Activity	The biological activity determined by a chemotaxis bioassay using human neutrophils is in a concentration of 10-100ng/ml. Fully biologically active when compared to standard.
Endotoxin	< 0.1 EU per 1µg of the protein by the LAL method.
Formulation	Lyophilized from a 0.2 µm filtered concentrated solution in 20 mM PB, 500 mM NaCl, pH 7.0. We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom.
Reconstitution	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°C. Further dilutions should be made in appropriate buffered solutions.

Shipping and Storage

The products are shipped with ice pack and can be stored at -20°C to -80°C for 1 year.

Recommend to aliquot the protein into smaller quantities when first used and avoid repeated freeze-thaw cycles.

Cautions

1. Avoid repeated freeze-thaw cycles.
2. For your safety and health, please wear lab coats and disposable gloves for operation.
3. For research use only!