

Bioactive

HuPro®

PF4 (Human) Recombinant Protein

Catalog # P7328

Size 10 ug

Specification

Product Description	Human PF4 (P02776, 32 a.a. - 101 a.a) partial recombinant protein expressed in HEK293 cells.
Sequence	AEAEEDGDLQCLCVKTTSQVRPRHITSLEVIKAGPHCPTAQLIATLKNGRKICLDLQAPLYKKIIKKL LES
Host	Human
Theoretical MW (kDa)	7.8
Form	Lyophilized
Preparation Method	Mammalian cell (HEK 293) expression system
Purity	> 95% as analyzed by SDS-PAGE. > 95% as analyzed by HPLC.
Endotoxin Level	< 0.2 EU/ug of protein by gel clotting method
Activity	ED ₅₀ < 10.0 ug/mL, measured by the ability to inhibit human FGF-basic-dependent proliferation of N R6R 3T3 mouse fibroblast cells.
Recommend Usage	Biological Activity SDS-PAGE The optimal working dilution should be determined by the end user.
Storage Buffer	Lyophilized from PBS. Reconstitute the lyophilized powder in ddH ₂ O up to 100 ug/mL.
Storage Instruction	Store at 4°C to 8°C for 1 week. For long term storage store at -20°C to -80°C. Aliquot to avoid repeated freezing and thawing.

Applications

- Functional Study

- SDS-PAGE

Gene Info — PF4

Entrez GeneID	5196
Protein Accession#	P02776
Gene Name	PF4
Gene Alias	CXCL4, MGC138298, SCYB4
Gene Description	platelet factor 4
Omim ID	173460
Gene Ontology	Hyperlink
Gene Summary	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 (Eisman et al., 1990 [PubMed 1695112]).[supplied by OMIM]
Other Designations	chemokine (C-X-C motif) ligand 4 platelet factor 4 (chemokine (C-X-C motif) ligand 4)

Pathway

- [Chemokine signaling pathway](#)
- [Cytokine-cytokine receptor interaction](#)

Disease

- [Asthma](#)
- [Bronchiolitis](#)
- [Cardiovascular Diseases](#)
- [Diabetes Mellitus](#)
- [Edema](#)

- [Genetic Predisposition to Disease](#)
- [Infant](#)
- [Respiratory Syncytial Virus Infections](#)