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_2O 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

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- 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 pl atelets and binds with high affinity to heparin. Its major physiologic role appears to be neutralizatio n of heparin-like molecules on the endothelial surface of blood vessels, thereby inhibiting local anti thrombin III activity and promoting coagulation. As a strong chemoattractant for neutrophils and fib roblasts, PF4 probably has a role in inflammation and wound repair (Eisman et al., 1990 [PubMe d 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

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- Genetic Predisposition to Disease
- Infant
- Respiratory Syncytial Virus Infections

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