Bioactive

PF4 (Human) Recombinant Protein

Catalog # P9558 Size 20 ug

Specification

Product Description	Human PF4 (P02776, 32 a.a. - 91 a.a.) partial recombinant protein expressed in *Escherichia coli*.
Sequence	EAEEDGDLQCLCVKTTSQVRPRHITSLEVIKAGPHCPTAQLIATLKNGRKICLDLQAPLY
Host	Escherichia coli
Theoretical MW (kDa)	7.8
Form	Lyophilized
Preparation Method	*Escherichia coli* expression system
Purity	> 97.0% by SDS-PAGE
Activity	The Biological activity is 1.0 - 10 ng/mL, was determined by a chemotaxis bioassay using human fibr oblasts.
Recommend Usage	Biological Activity SDS-PAGE The optimal working dilution should be determined by the end user.
Storage Buffer	Lyophilized from sterile distilled Water is > 100 ug/mL
Storage Instruction	Store at 2°C to 8°C for 1 week. For long term storage, aliquot and store at -20°C to -80°C. Aliquot to avoid repeated freezing and thawing.

Applications

- Functional Study
- SDS-PAGE

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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
- Genetic Predisposition to Disease

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- Infant

- Respiratory Syncytial Virus Infections

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