

Active Recombinant Human PF4 Protein

Cat. No. PF4-166P Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human PF4 Protein without tag was expressed in HEK 293.
Species	Human
Source	HEK293
Description	Platelet factor 4, also known as CXCL4, is expressed in megakaryocytes and stored in the α -granules of platelets. Recombinant human PF-4 is a 7.8 kDa protein containing 70 amino acid residues, including the four highly conserved residues present in CXC chemokines. Platelet factor 4 can be antiproliferative and antiangiogenic, at least in part via interfering with FGF2 and VEGF heparin binding and thus inhibiting their signaling. However, it can also be proinflammatory and proatherogenic through multiple effects on monocytes, macrophages and endothelial cells.
Form	Sterile Filtered White lyophilized (freeze-dried) powder.
Bio-activity	ED50 < 10 μ g/mL, measured by its ability to inhibit human FGF-basic-dependent proliferation of NR6R 3T3 mouse fibroblast cells.
Molecular Mass	~7.8 kDa, observed by non-reducing SDS-PAGE.
AA Sequence	EAEEDGDLQCLCVKTTTSQVRPRHITSLEVIKAGPHCPTAQLIATLKNRKRKICLDLQAP LYKKIIKKLLES

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Endotoxin	< 0.2 EU/μg, determined by LAL method.
Purity	> 95% as analyzed by SDS-PAGE and HPLC.
Storage	Lyophilized recombinant human platelet factor 4 remains stable up to 6 months at -80 centigrade from date of receipt. Upon reconstitution, human platelet factor 4 should be stable up to 1 week at 4 centigrade or up to 2 months at -20 centigrade.
Storage Buffer	Lyophilized after extensive dialysis against PBS.
Reconstitution	Reconstituted in ddH ₂ O or PBS at 100 μg/mL.

GENE INFORMATION

Gene Name	PF4 platelet factor 4 [Homo sapiens (human)]
Official Symbol	PF4
Synonyms	PF4; platelet factor 4; PF-4; CXCL4; SCYB4; platelet factor 4; C-X-C motif chemokine 4; chemokine (C-X-C motif) ligand 4; iroplact; oncostatin-A
Gene ID	5196
mRNA Refseq	NM_002619
Protein Refseq	NP_002610
MIM	173460
UniProt ID	P02776

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