

Overview

Synonyms	PF-4, CXCL4, SCYB4, Platelet Factor-4, CXCL4, Oncostatin A, Ironplact
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.
Accession No	P02776
Species	Human
Source	HEK 293
Biological Activity	ED ₅₀ < 10 ug/ml, measured by its ability to inhibit human FGF-basic-dependent proliferation of NR6R 3T3 mouse fibroblast cells.
Sequence	EAEEDGDLQC LCVKTTTSQVR PRHITSLEVI KAGPHCPTAQ LIATLKNGRK ICLDLQAPLY KKIICKLLES

Properties

Measured Molecular Weight	~7.8 kDa, observed by non-reducing SDS-PAGE.
Purity	> 95% as analyzed by SDS-PAGE and HPLC.
Formulation	Lyophilized after extensive dialysis against PBS.
Reconstitution	Reconstituted in ddH ₂ O or PBS at 100 µg/ml.
Endotoxin Level	< 0.2 EU/µg, determined by LAL method.
Storage	Lyophilized recombinant human platelet factor 4 remains stable up to 6 months at lower than -70°C from date of receipt. Upon reconstitution, human platelet factor 4 should be stable up to 1 week at 4°C or up to 2 months at -20°C.
Note	For research use only

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