DATASHEET
Version 20181206

PF-4/CXCL4, Human

Cat. No.: Z03026-50

Size: 50.0 ug

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.

Amino Acid Sequence:

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00001 EAEEDGDLQC LCVKTTSQVR PRHITSLEVI KAGPHCPTAQ
00041 LIATLKNGRK ICLDLQAPLY KKIIKKLLES
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Source: *HEK 293*

Species: Human

Biological Activity: ED_{50} < 10 ug/ml, measured by its ability to inhibit human FGF-basic-dependent proliferation of NR6R 3T3 mouse fibroblast cells.

Molecular Weight: 7.8 kDa, observed by non-reducing SDS-PAGE.

Formulation: Lyophilized after extensive dialysis against PBS.

Reconstitution: Reconstituted in ddH_2O or PBS at 100 µg/ml.

Purity: > 95% as analyzed by SDS-PAGE and HPLC.

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.

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