

Active Recombinant Human PF4 protein, His-tagged

Cat. No. PF4-150H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Active Recombinant Human PF4 protein(P02776)(31~101 aa), fused with N-terminal His tag, was expressed in E.coli.
Species	Human
Source	E.coli
ProteinLength	31-101 aa
Form	Lyophilized from sterile 20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose and Proclin300.
Bio-activity	Platelet factor 4 (PF4) is a small cytokine belonging to the CXC chemokine family that is also known as chemokine (C-X-C motif) ligand 4 (CXCL4). This chemokine is released from alpha-granules of activated platelets during platelet aggregation, and promotes blood coagulation by moderating the effects of heparin-like molecules. Due to these roles, it is predicted to play a role in wound repair and inflammation. It was reported that PF4 can inhibits U937 cells proliferation. To test the effect of U937 on cell apoptosis, U937 cells were seeded into 96-well plates at a density of 5,000 cells/well with 5% serum standard 1640 including various concentrations of recombinant Human PF4. After incubated for 48 h, cells were observed by inverted microscope and cell proliferation was measured by Cell Counting Kit-8 (CCK-8). Briefly, 10 μ of CCK-8 solution was added to each well of the plate, then the absorbance at 450 nm was measured using a microplate reader after incubating the

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plate for 4 hours at 37°C. Proliferation of U937 cells after incubation with PF4 for 48 h observed by inverted microscope was shown. Cell viability was assessed by CCK-8 assay after incubation with recombinant Human PF4 for 48 h. It was obvious that PF4 significantly inhibit cell viability of U937 cells. The ED50 is 2.2-3.1µg/mL.

Molecular Mass	14.5kDa
Endotoxin	<1.0EU per 1µg (determined by the LAL method).
Purity	> 97% as determined by SDS-PAGE.
Storage	Avoid repeated freeze/thaw cycles. Store at -20°C for 12 months. Aliquot and store at -80°C for 12 months.
Reconstitution	Reconstitute in 20mM Tris, 150mM NaCl (PH8.0) to a concentration of 0.1-1.0 mg/mL. Do not vortex.

GENE INFORMATION

Gene Name	PF4 platelet factor 4 [Homo sapiens]
Official Symbol	PF4
Synonyms	PF4; platelet factor 4; chemokine (C X C motif) ligand 4; CXCL4; SCYB4; iroplact; oncostatin-A; C-X-C motif chemokine 4; chemokine (C-X-C motif) ligand 4; PF-4; MGC138298;
Gene ID	5196
mRNA Refseq	NM_002619

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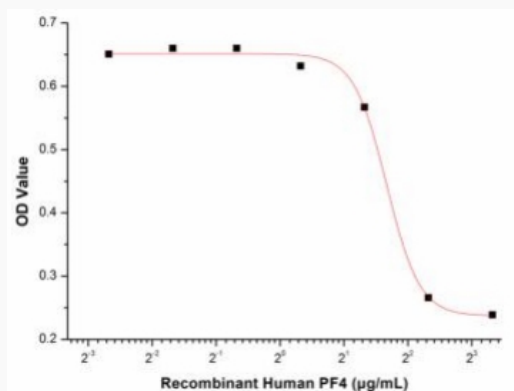
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Protein Refseq NP_002610

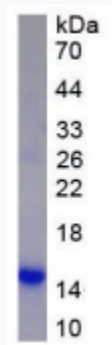
MIM 173460

UniProt ID P02776

Activity



SDS-PAGE



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