

Mouse PF4 protein, His tag (active)

Cat. No. GTX00334-pro

Applications Functional Assay**Species** Mouse

References (1)

Package

10 µg

Applications

Application Note

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. To measure its ability to inhibit the FGF basic-dependent proliferation of HUVEC human umbilical vein endothelial cells, HUVEC cells were seeded into 96-well plates at a density of 3000 cells/well with 2% serum standard DMEM including 1 µg/ml recombinant human FGF1 and various concentrations of recombinant human PF4. After incubated for 48h, cells were observed by inverted microscope. Briefly, 10 µl of CCK-8 solution was added to each well of the plate, then the absorbance at 450nm was measured using a microplate reader after incubating the plate for 1-2 hours at 37°C. Proliferation of HUVEC cells after incubation with PF4 for 48h observed by inverted microscope.

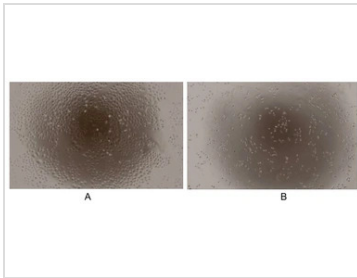
Observed MW (kDa) 13 kDa.

Properties

Form Lyophilized powder**Buffer** Reconstitute with 20mM Tris and 150mM NaCl to 0.1-1.0mg/ml. Do not vortex. Lyophilized from 20mM Tris, 150mM NaCl, 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose.**Preservative** ProClin 300**Storage** For short-term storage (1-2 weeks), store at 4°C. For long-term storage, store at -20°C or below. After reconstitution, keep as concentrated solution. Avoid freeze-thaw cycles.**Region/Sequence** N-terminal His-Tag; Val30~Ser105 (NP_064316.1)**Expression System** E. coli**Purity** > 90%**Endotoxin** < 1 EU/µg**Conjugation** Unconjugated**Note** For laboratory use only. Not for any clinical, therapeutic, or diagnostic use in humans or animals. Not for animal or human consumption.

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DATA IMAGES

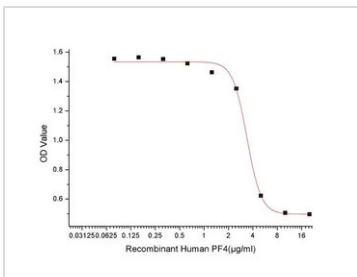


GTX00334-pro Functional Assay Image

The inhibition effect of GTX00334-pro Mouse PF4 protein (active) on FGF basic-dependent proliferation.

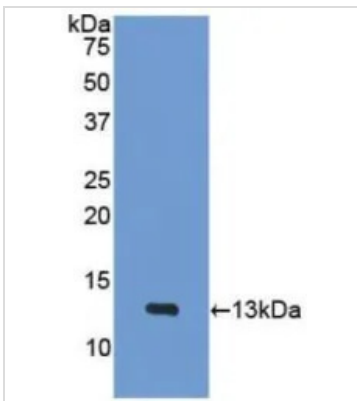
(A) Unstimulated HUVEC cells cultured in DMEM with 1 µg/ml FGF1 for 48hrs.

(B) HUVEC cells cultured in DMEM with 1 µg/ml FGF1, stimulated with 5 µg/ml PF4 for 48hrs.



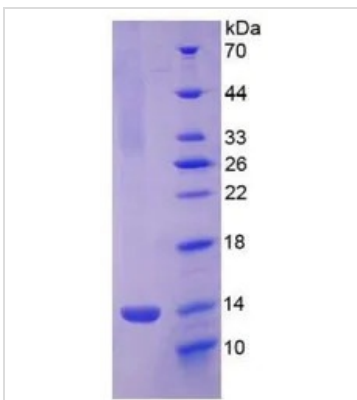
GTX00334-pro Functional Assay Image

The inhibitory effect of GTX00334-pro Mouse PF4 protein (active) on the FGF basic-dependent proliferation of HUVEC. After incubation of 1 µg/ml of recombinant human FGF1 protein and various concentrations of Mouse PF4 protein (active) for 48 hrs, cell viability was measured by Cell Counting Kit-8 (CCK-8).



GTX00334-pro Image

WB analysis of GTX00334-pro Mouse PF4 protein (active).



GTX00334-pro Image

SDS-PAGE analysis of GTX00334-pro Mouse PF4 protein (active).



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