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 1µg/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 37ºC. 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 4ºC. For long-term storage, store at -20ºC 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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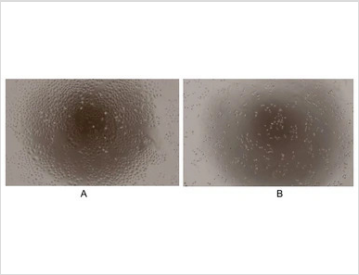
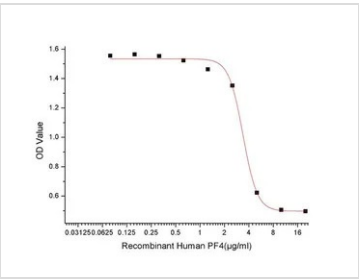
DATA IMAGES



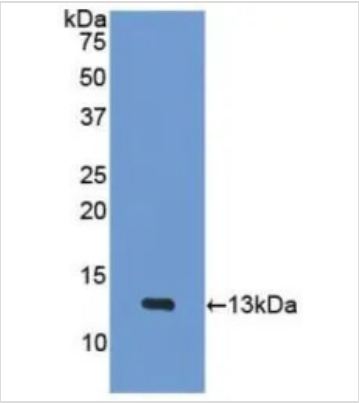
GTX00334-pro Functional Assay Image

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.



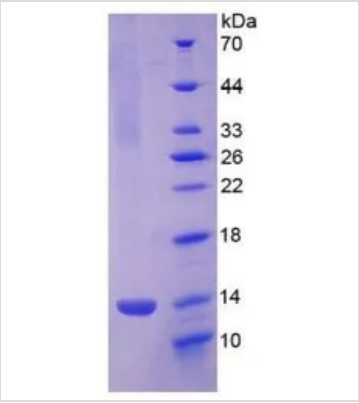
GTX00334-pro Functional Assay Image

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 concentraions 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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