

Mouse FGF1 protein, His tag (active)

Cat. No. GTX00281-pro

Applications Functional Assay

Species Mouse

Package

10 µg

Applications

Application Note

FGF1 (Fibroblast growth factor 1) belongs to the fibroblast growth factor (FGF) family. FGF1 plays an important role in the regulation of cell survival, cell division, angiogenesis, cell differentiation and cell migration. FGF1 is thought to stimulate the proliferation of 3T3 fibroblasts. Thus, a cell proliferation assay was conducted to detect the bioactivity of recombinant mouse FGF1 using 3T3 fibroblasts. Briefly, 3T3 cells were seeded into triplicate wells of 96-well plates at a density of 2000 cells/well and allowed to attach overnight, then the medium was replaced with serum-free standard DMEM prior to the addition of various concentrations of FGF1. After incubated for 48h, cells were observed by inverted microscope and cell proliferation was measured by Cell Counting Kit-8 (CCK-8). 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 1-4 hours at 37°C. Proliferation of 3T3 cells after incubation with FGF1 for 48h observed by inverted microscope. Cell viability was assessed by CCK-8 (Cell Counting Kit-8) assay after incubation with recombinant FGF1 for 48h. And FGF1 significantly increased cell viability of 3T3 cells.

Observed MW (kDa) 18 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; Phe16~Asp155 (NP_034327.1)

Expression System E. coli

Purity > 97%

Endotoxin < 1 EU/µg

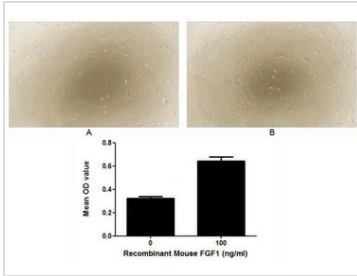
Conjugation Unconjugated

Note For laboratory use only. Not for any clinical, therapeutic, or diagnostic use in humans or animals. Not for animal or human consumption.



For full product information, images and publications, please visit our [website](#).

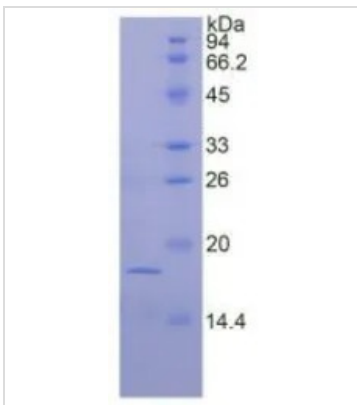
Date 2026 / 10 / 07 Page 1 of 2

DATA IMAGES

GTX00281-pro Functional Assay Image

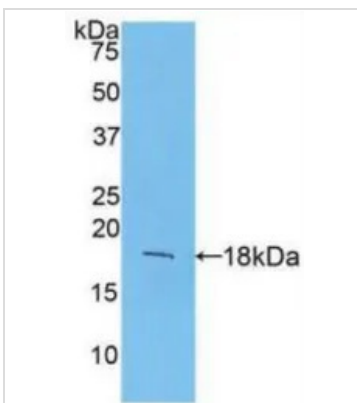
Cell proliferation effect of GTX00281-pro Mouse FGF1 protein (active). Cell viability was measured by Cell Counting Kit-8 (CCK-8).

(A) Unstimulated 3T3 cells cultured in DMEM for 48hrs.

(B) 3T3 cells cultured in DMEM, stimulated with 100 ng/ml FGF1 for 48hrs.


GTX00281-pro Image

SDS-PAGE analysis of GTX00281-pro Mouse FGF1 protein (active).


GTX00281-pro Image

WB analysis of GTX00281-pro Mouse FGF1 protein (active).



For full product information, images and publications, please visit our [website](https://www.genetex.com).