

Human FGF1 protein, His and GST tag (active)

Cat. No. GTX00081-pro

Application	Functional Assay
Species	Human

Package
10 µg

APPLICATION

Application Note

FGF1 (Fibroblast growth factor 1) is a member of FGF family, which 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, besides, human FGF1 and mouse FGF1 shares similarities in amino acid sequence with the identity of 96%. Thus, a cell proliferation assay was conducted to detect the bioactivity of recombinant human 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.

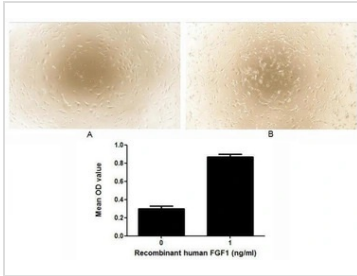
Observed MW 55 kDa.

PROPERTIES

Form	Lyophilized powder
Buffer	Batch dependent (please contact us for details)
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 and GST-Tag; Met1~Asp155 (NP_000791.1)
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.



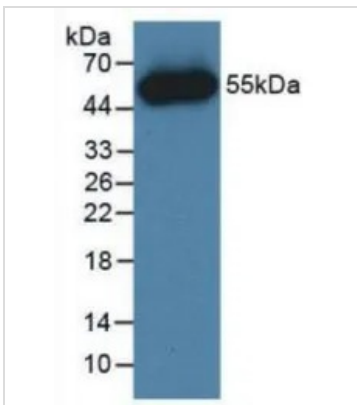
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DATA IMAGES

GTx00081-pro Functional Assay Image

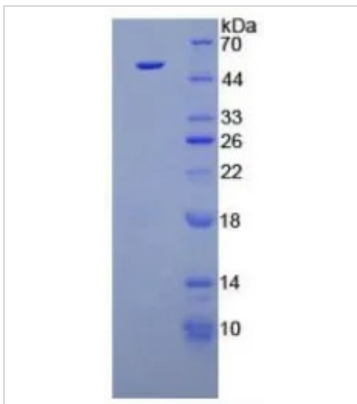
Cell proliferation effect of GTx00081-pro Human FGF1 protein (active). Cell viability was measured by Cell Counting Kit-8 (CCK-8).

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

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


GTx00081-pro Image

WB analysis of GTx00081-pro Human FGF1 protein (active).


GTx00081-pro Image

SDS-PAGE analysis of GTx00081-pro Human FGF1 protein (active).



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