

Rat FGF13 protein, His tag (active)

Cat. No. GTX00350-pro

Applications Functional Assay

Species Rat

Package

10 µg

Applications

Application Note

FGF13 (Fibroblast growth factor 13) is a member of the fibroblast growth factor (FGF) family. FGF family members possess broad mitogenic and cell survival activities, and are involved in a variety of biological processes, including embryonic development, cell growth, morphogenesis, tissue repair, tumor growth, and invasion. A proliferation assay was conducted to detect the bioactivity of recombinant rat FGF13 using 3T3 cells. 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 FGF13. 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 FGF13 for 48h observed by inverted microscope. Cell viability was assessed by CCK-8 (Cell Counting Kit-8) assay after incubation with recombinant FGF13 for 48h. And FGF13 significantly increased cell viability of 3T3 cells.

Observed MW (kDa) 24 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 Full length protein, N-terminal His-Tag; Met1~Thr192 (NP_445880.1)

Expression System E. coli

Purity > 97%

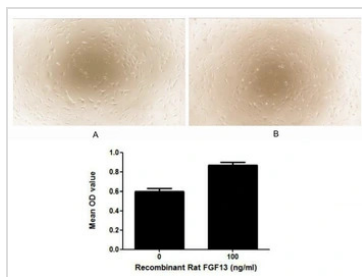
Endotoxin < 1 EU/µg

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.



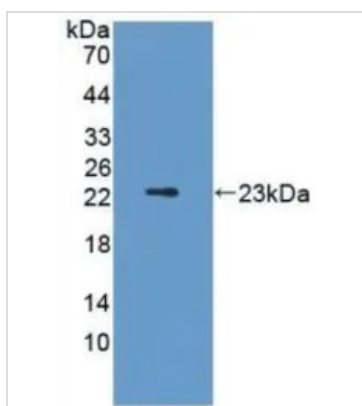
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DATA IMAGES

GTX00350-pro Functional Assay Image

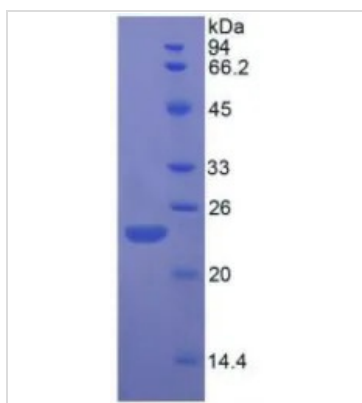
Cell proliferation effect of GTX00350-pro Rat FGF13 protein (active). Cell viability was measured by Cell Counting Kit-8 (CCK-8).

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

(B) 3T3 cells cultured in DMEM, stimulated with 100 ng/ml FGF13 for 48hrs.


GTX00350-pro Image

WB analysis of GTX00350-pro Rat FGF13 protein (active).


GTX00350-pro Image

SDS-PAGE analysis of GTX00350-pro Rat FGF13 protein (active).



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