

Mouse FGF23 protein, His tag (active)

Cat. No. GTX00295-pro

Applications Functional Assay**Species** Mouse**Package**

10 µg

Applications

Application Note

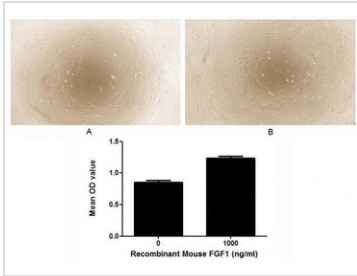
FGF23 (Fibroblast growth factor 23) is a member of the fibroblast growth factor family, which possess broad mitogenic and cell survival activities and are involved in a variety of biological processes. A proliferation assay was conducted to detect the bioactivity of recombinant mouse FGF23 using 3T3 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 FGF23. 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 FGF23 for 48h observed by inverted microscope. Cell viability was assessed by CCK-8 (Cell Counting Kit-8) assay after incubation with recombinant FGF23 for 48h. And FGF23 significantly increased cell viability of 3T3 cells.

Observed MW (kDa) 29 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; Tyr25~Val251 (NP_073148.1)**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.

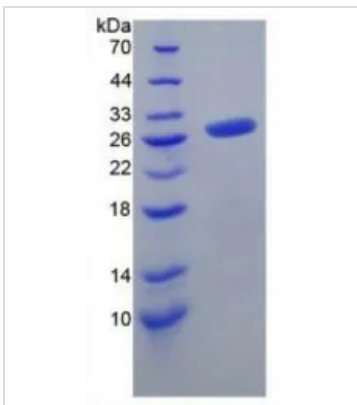
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DATA IMAGES

GTX00295-pro Functional Assay Image

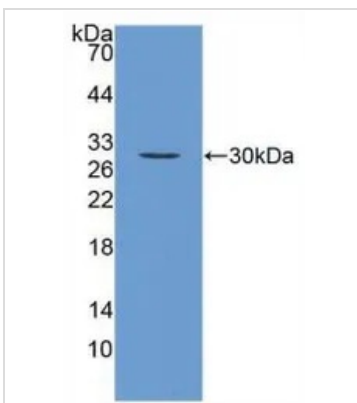
Cell proliferation effect of GTX00295-pro Mouse FGF23 protein (active). Cell viability was measured by Cell Counting Kit-8 (CCK-8).

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

(B) 3T3 cells cultured in DMEM, stimulated with 1000 ng/ml FGF23 for 48hrs.


GTX00295-pro Image

SDS-PAGE analysis of GTX00295-pro Mouse FGF23 protein (active).


GTX00295-pro Image

WB analysis of GTX00295-pro Mouse FGF23 protein (active).



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