Active Recombinant Rat Fgf21 protein, His-tagged

Cat. No. Fgf21-931R **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Active Recombinant Rat Fgf21 protein(Q8VI80)(25-208 aa), fused with N-terminal His tag, was expressed in HEK293.
Species	Rat
Source	HEK293
ProteinLength	25-208 aa
Form	PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.
Bio-activity	Fibroblast growth factor 21 (FGF21) is a protein that in mammals is encoded by the FGF21 gene. The protein encoded by this gene is a member of the fibroblast growth factor (FGF) family which 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 FGF21 using Balb/c 3T3 cells. Briefly, 3T3 cells were seeded into triplicate wells of 96-well plates at a density of 4,000 cells/well and allowed to attach overnight, then the medium was replaced with various concentrations of FGF21 diluted with serum-free standard DMEM. After incubated for 48h, cells were observed by inverted microscope and cell proliferation was measured by Cell Counting Kit-8(CCK-8). Briefly, 10 µof CCK-8 solution was added to each well of the plate, then the absorbance at 450 nm was measured using a microplate reader after incubating the plate for 1-4 hours at 37°C.

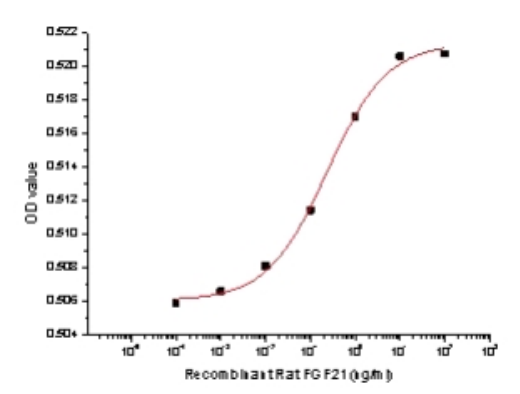
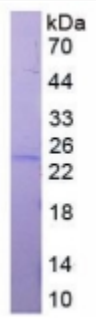
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	Proliferation of Balb/c 3T3 cells after incubation with FGF21 for 48h observed by inverted microscope was shown. Cell viability was assessed by CCK-8(Cell Counting Kit-8) assay after incubation with recombinant FGF21 for 48h. It was obvious that FGF21 significantly increased cell viability of 3T3 cells. The ED50 of recombinant rat FGF21 is 0.23 ng/ml.
Molecular Mass	21.7kDa
Endotoxin	<1.0EU per 1μg (determined by the LAL method).
Purity	> 95%
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Store at -20°C for 12 months. Aliquot and store at -80°C for 12 months.
Reconstitution	Reconstitute in 10mM PBS (pH7.4) to a concentration of 0.1-1.0 mg/mL. Do not vortex.

GENE INFORMATION

Gene Name	Fgf21 fibroblast growth factor 21 [Rattus norvegicus]
Official Symbol	Fgf21
Synonyms	FGF21; fibroblast growth factor 21;
Gene ID	170580
mRNA Refseq	NM_130752
Protein Refseq	NP_570108

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