

Active Recombinant Human FGF22 protein, His-tagged

Cat. No. FGF22-3585H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Active Recombinant Human FGF22 protein(Q9HCT0)(33-170 aa), fused with N-terminal His tag, was expressed in E.coli.
Species	Human
Source	E.coli
ProteinLength	33-170 aa
Form	20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose and Proclin300.
Bio-activity	FGF22(Fibroblast growth factor 22) 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 human FGF22 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 FGF22 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 FGF22 for 48h observed by inverted microscope was shown. Cell viability was assessed by CCK-8(Cell Counting Kit-8) assay after incubation with recombinant FGF22 for 48h. It was obvious that FGF22 significantly increased cell viability of 3T3 cells. The ED50 of recombinant human FGF22 is 187ng/ml.

Molecular Mass	19.9kDa
Endotoxin	<1.0EU per 1µg (determined by the LAL method).
Purity	> 90%
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 20mM Tris, 150mM NaCl (PH8.0) to a concentration of 0.1-1.0 mg/mL. Do not vortex.

GENE INFORMATION

Gene Name	FGF22 fibroblast growth factor 22 [Homo sapiens]
Official Symbol	FGF22
Synonyms	FGF22; fibroblast growth factor 22; FGF-22;
Gene ID	27006
mRNA Refseq	NM_020637
Protein Refseq	NP_065688

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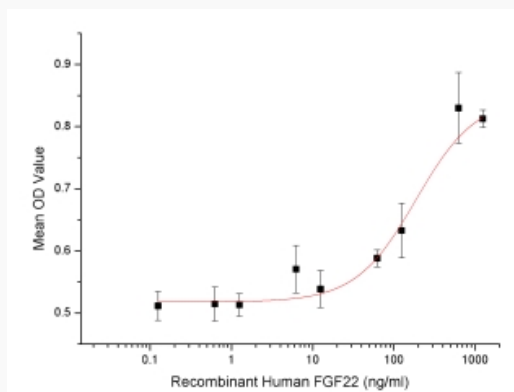
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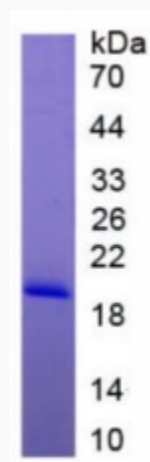
MIM 605831

UniProt ID Q9HCT0

Activity



SDS-PAGE



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