

Fibroblast Growth Factor 22 (FGF22) Active Protein | FGF22 active protein

Active Fibroblast Growth Factor 22 (FGF22)

CATALOG # AAA148204	HOST E Coli	REACTIVITY Mouse	APPLICATIONS Activity Assay, Cell Culture
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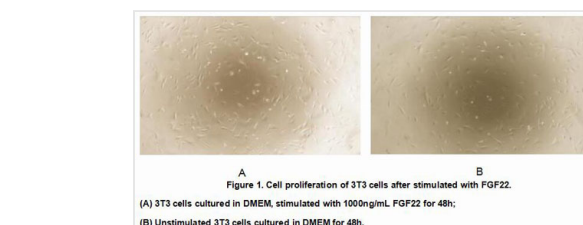
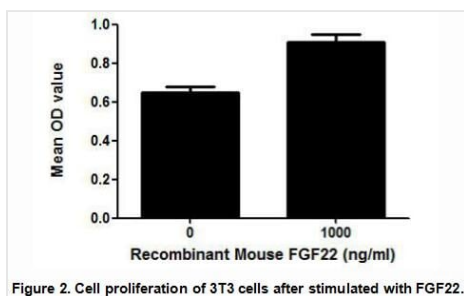
PRODUCT SYNONYMS

Fibroblast Growth Factor 22 (FGF22); Active Fibroblast Growth Factor 22 (FGF22); FGF22 active protein

PRODUCT SPECIFICATIONS

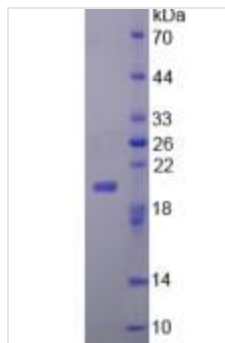
Host	E Coli
Reactivity	Mouse
Purity/Purification	> 95%
Form/Format	Freeze-dried powder
Sequence Length	162
Applicable Applications for FGF22 active protein	Activity Assay, Cell Culture
Tag	N-terminal His Tag
Buffer Formulation	20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose and Proclin300.
Fragment	His26~Ser162
Isoelectric Point	11.7

IMAGES



Application Data

Application Data



SDS-PAGE

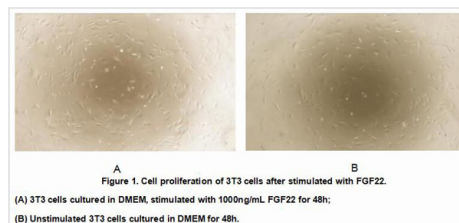


Figure 1. Cell proliferation of 3T3 cells after stimulated with FGF22.
(A) 3T3 cells cultured in DMEM, stimulated with 1000ng/mL FGF22 for 48h;
(B) Unstimulated 3T3 cells cultured in DMEM for 48h.

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 mouse FGF22 using 3T3 cells. Briefly, 3T3 cells were seeded into triplicate wells of 96-well plates at a density of 2,000 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 FGF22. After incubated for 48h, cells were observed by inverted microscope and cell proliferation was measured by Cell Counting Kit-8 (CCK-8). Briefly, 10uL 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 degree C. Proliferation of 3T3 cells after incubation with FGF22 for 48h observed by inverted microscope was shown in Figure 1. Cell viability was assessed by CCK-8 (Cell Counting Kit-8) assay after incubation with recombinant FGF22 for 48h. The result was shown in Figure 2. It was obvious that FGF22 significantly increased cell viability of 3T3 cells.

ADDITIONAL INFORMATION

Product Categories/Family for FGF22 active protein	Cytokine
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NCBI AND UNIPROT INFORMATION

NCBI GI #	12963627
NCBI GeneID	67112
NCBI Accession #	NP_075793.1
NCBI GenBank Nucleotide #	NM_023304.1
UniProt Accession #	Q9ESS2
Molecular Weight	Predicted Molecular Weight: 19.9kDa Accurate Molecular Weight: 20kDa
NCBI Official Full Name	fibroblast growth factor 22
NCBI Official Synonym Full Names	fibroblast growth factor 22
NCBI Official Symbol	Fgf22
NCBI Official Synonym Symbols	FGF-22; 2210414E06Rik
NCBI Protein Information	fibroblast growth factor 22
UniProt Protein Name	Fibroblast growth factor 22
UniProt Gene Name	Fgf22
UniProt Synonym Gene Names	FGF-22

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/e-coli-mouse-active-protein/fibroblast-growth-factor-22-fgf22/148204>