

Fibroblast Growth Factor 23 (FGF23) Active Protein | FGF23 active protein

Active Fibroblast Growth Factor 23 (FGF23)

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA148178	E Coli	Mouse	Activity Assay, Cell Culture

PRODUCT SYNONYMS

Fibroblast Growth Factor 23 (FGF23); Active Fibroblast Growth Factor 23 (FGF23); ADHR; HYPF; HPDR2; PHPTC; Phosphatonin; Tumor-derived hypophosphatemia-inducing factor; FGF23 active protein

PRODUCT SPECIFICATIONS

Host	E Coli
Reactivity	Mouse
Purity/Purification	> 90%
Form/Format	Freeze-dried powder
Sequence Length	251
Applicable Applications for FGF23 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	Tyr25~Val251
Isoelectric Point	9.8

IMAGES

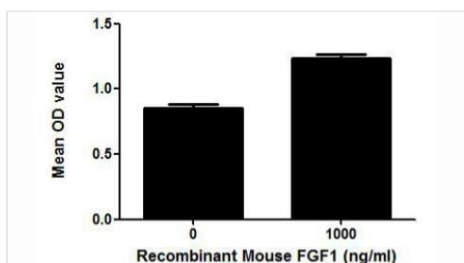
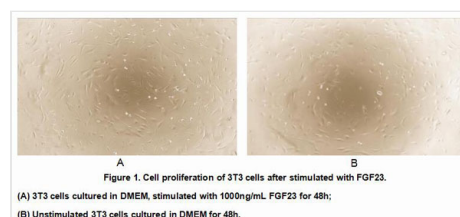
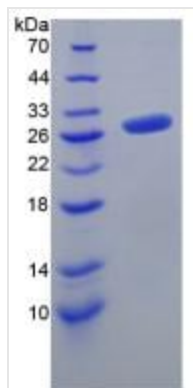


Figure 2. Cell proliferation of 3T3 cells after stimulated with FGF23.

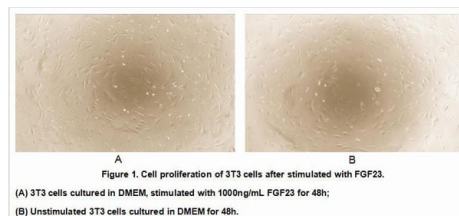


Application Data

Application Data



SDS-PAGE



Activity

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 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 FGF23. 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 FGF23 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 FGF23 for 48h. The result was shown in Figure 2. It was obvious that FGF23 significantly increased cell viability of 3T3 cells.

ADDITIONAL INFORMATION

Product Categories/Family for FGF23 active protein	Cytokine; Tumor immunity; Infection immunity; Genetic science
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NCBI AND UNIPROT INFORMATION

NCBI GI #	12083589
NCBI GeneID	64654
NCBI Accession #	NP_073148.1
NCBI GenBank Nucleotide #	NM_022657.4
UniProt Accession #	Q9EPC2
Molecular Weight	Predicted Molecular Weight: 28.7kDa Accurate Molecular Weight: 29kDa
NCBI Official Full Name	fibroblast growth factor 23
NCBI Official Synonym Full Names	fibroblast growth factor 23
NCBI Official Symbol	Fgf23
NCBI Protein Information	fibroblast growth factor 23
UniProt Protein Name	Fibroblast growth factor 23
UniProt Gene Name	Fgf23
UniProt Synonym Gene Names	FGF-23

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-23-fgf23/148178>