

Fibroblast Growth Factor 1, Acidic (FGF1) Active Protein | FGF1 active protein

Active Fibroblast Growth Factor 1, Acidic (FGF1)

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA148154	E Coli	Mouse	Activity Assay, Cell Culture

PRODUCT SYNONYMS

Fibroblast Growth Factor 1; Acidic (FGF1); Active Fibroblast Growth Factor 1; ECGF; AFGF; ECGFA; ECGFB; FGF-Alpha; FGFA; HBGF1; Acidic Fibroblast Growth Factor; heparin-binding growth factor 1; Endothelial Cell Growth Factor; Beta; FGF1 active protein

PRODUCT SPECIFICATIONS

Host	E Coli
Reactivity	Mouse
Purity/Purification	> 97%
Form/Format	Freeze-dried powder
Sequence Length	155
Applicable Applications for FGF1 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	Phe16~Asp155
Isoelectric Point	7.2

IMAGES

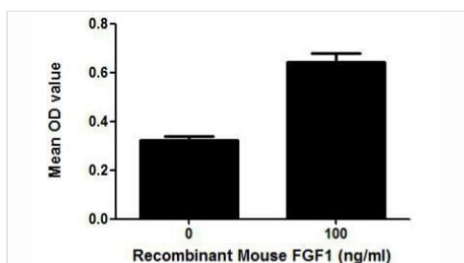
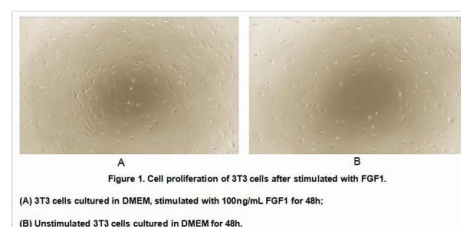
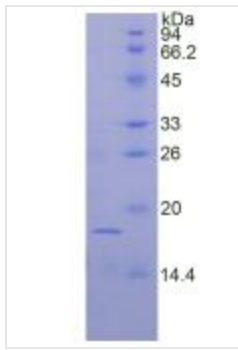


Figure 2. Cell proliferation of 3T3 cells after stimulated with FGF1.

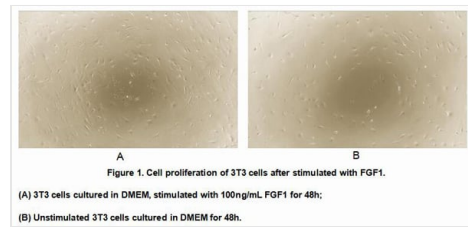


Application Data

Application Data



SDS-PAGE



Activity

FGF1) Fibroblast growth factor 1 belongs to the fibroblast growth factor (FGF) family. FGF1 plays an important role in the regulation of cell survival, cell division, angiogenesis, cell differentiation and cell migration. FGF1 is thought to stimulate the proliferation of 3T3 fibroblasts. Thus, a cell proliferation assay was conducted to detect the bioactivity of recombinant mouse FGF1 using 3T3 fibroblasts. 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 FGF1. 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 FGF1 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 FGF1 for 48h. The result was shown in Figure 2. It was obvious that FGF1 significantly increased cell viability of 3T3 cells.

ADDITIONAL INFORMATION

Product Categories/Family for FGF1 active protein	Cytokine; Tumor immunity; Infection immunity
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NCBI AND UNIPROT INFORMATION

NCBI GI #	6753850
NCBI GeneID	14164
NCBI Accession #	NP_034327.1
NCBI GenBank Nucleotide #	NM_010197.3
UniProt Accession #	P61148; P10935
Molecular Weight	Predicted Molecular Weight: 17.1kDa Accurate Molecular Weight: 18kDa
NCBI Official Full Name	fibroblast growth factor 1
NCBI Official Synonym Full Names	fibroblast growth factor 1
NCBI Official Symbol	Fgf1
NCBI Official Synonym Symbols	Fam; Fgfa; Dffrx; Fgf-1
NCBI Protein Information	fibroblast growth factor 1
UniProt Protein Name	Fibroblast growth factor 1
UniProt Gene Name	Fgf1
UniProt Synonym Gene Names	Fgf-1; Fgfa; FGF-1; aFGF; HBGF-1

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-1-acidic-fgf1/148154>