

Fibroblast Growth Factor 2 (FGF2) Active Protein | FGF2 active protein

Active Fibroblast Growth Factor 2, Basic (FGF2)

CATALOG #
AAA149236

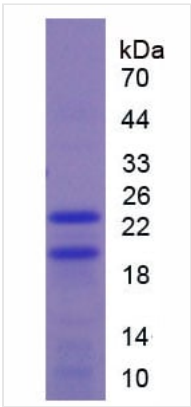
APPLICATIONS
Activity Assay, Cell Culture

PRODUCT SYNONYMS

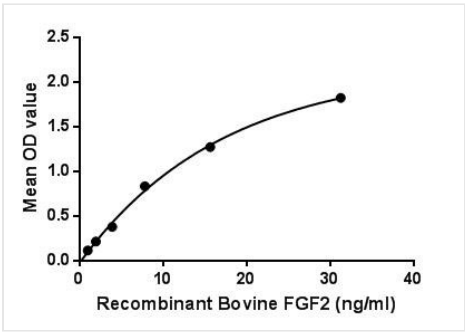
Fibroblast Growth Factor 2 (FGF2); Active Fibroblast Growth Factor 2; Basic (FGF2); B-FGF; BFGF; FGFB; HBGH-2; Basic Fibroblast Growth Factor; Heparin-binding growth factor 2; FGF2 active protein

PRODUCT SPECIFICATIONS

Purity/Purification	> 97%
Form/Format	Freeze-Dried Powder; 20mM Tris, 150mM NaCl, pH8.0, Containing 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose and Proclin300.
Sequence Positions	Pro10~Ser155
Sequence Length	155
Applicable Applications for FGF2 active protein	Activity Assay, Cell Culture
Species	Bovine
Tag	N-terminal His-Tag
Isoelectric Point	9.6
Reconstitution	Reconstitute in 20mM Tris, 150mM NaCl (pH8.0) to a concentration of 0.1-1.0 mg/mL. Do not vortex.
Preparation and Storage	Store at 2-8 degree C for one month. Aliquot and store at -80 degree C for 12 months. Avoid repeated freeze/thaw cycles. The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 degree C for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.



SDS-PAGE



Activity

Figure. The binding activity of FGF2 with CASP1. Basic fibroblast growth factor (FGF2), also known as bFGF, FGF-beta is a member of a large family of structurally related heparin-binding proteins (the FGFs) involved in the regulation of cell proliferation, growth and differentiation. It is involved in many biological processes including angiogenesis, embryonic development and wound healing. Additionally, FGF2 is a critical component of human embryonic stem cell culture medium. Besides, Caspase 1 (CASP1) has been identified as an interactor of FGF2, thus a binding ELISA assay was conducted to detect the interaction of recombinant bovine FGF2 and recombinant bovine CASP1. Briefly, FGF2 were diluted serially in PBS, with 0.01% BSA (pH 7.4). Duplicate samples of 100uL were then transferred to CASP1-coated microtiter wells and incubated for 2h at 37 degree C. Wells were washed with PBST and incubated for 1h with anti-FGF2 pAb, then aspirated and washed 3 times. After incubation with HRP labelled secondary antibody, wells were aspirated and washed 3 times. With the addition of substrate solution, wells were incubated 15-25 minutes at 37 degree C. Finally, add 50uL stop solution to the wells and read at 450nm immediately. The binding activity of FGF2 and CASP1 was shown in Figure 1, and this effect was in a dose dependent manner.

ADDITIONAL INFORMATION

Product Categories/Family for FGF2 active protein	Cytokine; Tumor immunity; Infection immunity
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NCBI AND UNIPROT INFORMATION

NCBI GI #	27806627
NCBI GeneID	281161
NCBI Accession #	NP_776481.1
NCBI GenBank Nucleotide #	NM_174056.3
UniProt Accession #	P03969
Molecular Weight	Predicted MW: 20.1kDa Accurate MW: 20/23kDa
NCBI Official Full Name	fibroblast growth factor 2
NCBI Official Symbol	FGF2
NCBI Official Synonym Symbols	BFGF; FGF-2; HBGF-2
NCBI Protein Information	fibroblast growth factor 2
UniProt Protein Name	Fibroblast growth factor 2
UniProt Gene Name	FGF2
UniProt Synonym Gene Names	FGF-2; bFGF; HBGF-2
UniProt Entry Name	FGF2_BOVIN

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/active-protein/fibroblast-growth-factor-2-fgf2/149236>