

FGF1 active protein

FGF1 Protein, Mouse, Rat, Recombinant

CATALOG #
AAA258139

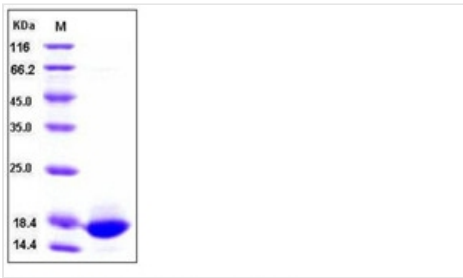
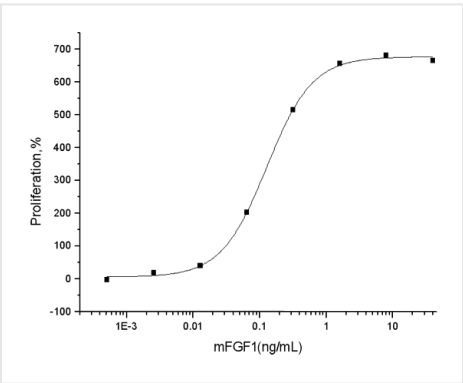
HOST
E Coli

PRODUCT SYNONYMS

FGF1; FGF1 Protein; Mouse; Rat; Recombinant; Mouse/Rat aFGF/FGF1 Protein; fibroblast growth factor 1 (acidic); FGF1 active protein

PRODUCT SPECIFICATIONS

Host	E Coli
Purity/Purification	>90% as determined by SDS-PAGE
Form/Format	Lyophilized from sterile 50mM Na2SO4, 0.5mM DTT, 1mM EDTA, 20mM Tris, pH7.5. Normally 5%-8% trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Please refer to the specific buffer information in the hard copy of CoA.
Sequence	Phe16-Asp155
Species	Mouse, Rat
Activity	Measured in a cell proliferation assay using Balb/c 3T3 mouse embryonic fibroblast cells. The ED50 for this effect is 0.04-0.2ng/mL.
Predicted N Terminal	Met
Tag	Native
Protein Construction	A DNA sequence encoding the mature form of mouse/rat FGF1 (NP_034327.1)(Phe16-Asp155) was expressed. Mouse and Rat FGF1 sequences are identical.
Reconstitution	A hardcopy of COA with reconstitution instruction is sent along with the products. Please refer to it for detailed information.
Preparation and Storage	Samples are stable for up to twelve months from date of receipt at -20 degree C to -80 degree C. Store it under sterile conditions at -20 degree C to -80 degree C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles. In general, recombinant proteins are provided as lyophilized powder which are shipped at ambient temperature. Bulk packages of recombinant proteins are provided as frozen liquid. They are shipped out with blue ice.



SDS-PAGE

Application Data
Measured in a cell proliferation assay using Balb/3T3 mouse embryonic fibroblast cells. The ED50 for this effect is 0.04-0.2 ng/mL.

ADDITIONAL INFORMATION

Related Product Information for FGF1 active protein	Background: aFGF, also known as FGF1 and HBGF-1, is a member of the fibroblast growth factor family. The biological activity of aFGF protein is exerted through binding to four high affinity cell surface receptors (FGFR1-4), which results in receptor dimerization and transphosphorylation in the tyrosine kinase domain. aFGF protein shows a wide range of endocrine-like activities. As a multiple function growth factor, this protein is involved in embryo development and tissue repair. Additionally, this protein is considered to function in several important physiological and pathological processes, such as embryonic development, morphogenesis, angiogenesis, wound healing and atheromatosis, carcinogenesis, development, and invasion of cancer. References
Product Categories/Family for FGF1 active protein	Actin Dynamics Signaling Pathway
References	Jaye M., et al.,(1986), Human endothelial cell growth factor: cloning, nucleotide sequence, and chromosome localization. Science 233:541-545.Mergia A., et al., (1989), Structural analysis of the gene for human acidic fibroblast growth factor.Biochem. Biophys. Res. Commun. 164:1121-1129.Wang W.P., et al.,(1989), Cloning of the gene coding for human class 1 heparin-binding growth factor and its expression in fetal tissues.Mol. Cell. Biol. 9:2387-2395.

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	17,418 Da
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; HBGF-1; aFGF; acidic fibroblast growth factor; fibroblast growth factor 1 (acidic); heparin-binding 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
UniProt Entry Name	FGF1_MOUSE

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-active-protein/fgf1/258139>