

FGF1 active protein

FGF1 Protein, Human, Recombinant

CATALOG #
AAA257816

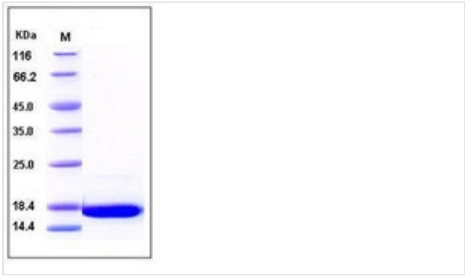
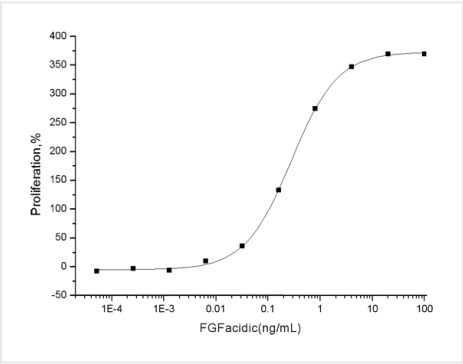
HOST
E Coli

PRODUCT SYNONYMS

FGF1; FGF1 Protein; Human; Recombinant; Human aFGF/FGF1 Protein; AFGF Protein; ECGF Protein; ECGF-beta Protein; ECGFA Protein; ECGFB Protein; FGF-1 Protein; FGF-alpha Protein; FGFA Protein; GLIO703 Protein; HBGF-1 Protein; HBGF1 Protein; fibroblast growth factor 1 (acidic); FGF1 active protein

PRODUCT SPECIFICATIONS

Host	E Coli
Purity/Purification	>95% as determined by SDS-PAGE
Form/Format	Lyophilized from sterile PBS, pH7.4. 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-Asp1 55
Species	Human
Activity	Measured in a cell proliferation assay using Balb/c 3T3 mouse embryonic fibroblasts. The ED50 for this effect is typically 0.15-0.75ng/mL.
Predicted N Terminal	Met
Tag	Native
Protein Construction	A DNA sequence encoding the mature form of human FGF acidic (AAA79245.1)(Phe 16-Asp 155) was expressed, with an additional Met at the N-terminus.
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/c 3T3 mouse embryonic fibroblasts. The ED50 for this effect is typically 0.15-0.75 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 #	181942
NCBI GeneID	2246
Molecular Weight	16 kDa
NCBI Official Full Name	beta-endothelial cell growth factor
NCBI Official Synonym Full Names	fibroblast growth factor 1
NCBI Official Symbol	FGF1
NCBI Official Synonym Symbols	AFGF; ECGF; FGFA; ECGFA; ECGFB; FGF-1; HBGF1; HBGF-1; GLIO703; ECGF-beta; FGF-alpha
NCBI Protein Information	fibroblast growth factor 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.