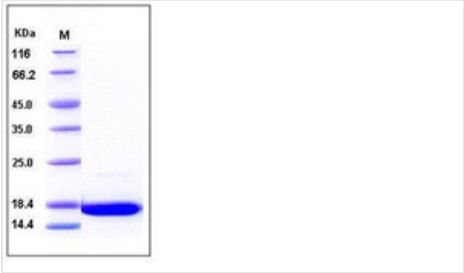
FGF1 Active Protein

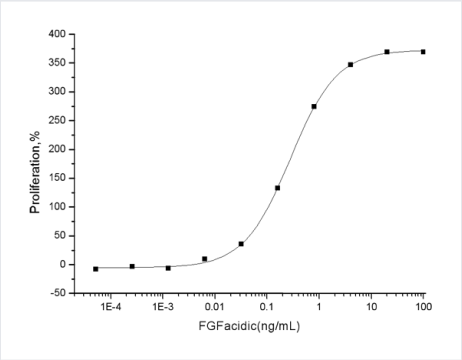
PRODUCT OVERVIEW

Product Name	FGF1, Active Protein
Full Product Name	FGF1 Protein, Human, Recombinant
Product Gene Name	FGF1 active protein
Product Synonym Names	Human aFGF/FGF1 Protein; AFGF Protein, Human; ECGF Protein, Human; ECGF-beta Protein, Human; ECGFA Protein, Human; ECGFB Protein, Human; FGF-1 Protein, Human; FGF-alpha Protein, Human; FGFA Protein, Human; GLIO703 Protein, Human; HBGF-1 Protein, Human; HBGF1 Protein, Human; fibroblast growth factor 1 (acidic)
Sequence	Phe16-Asp1 55
Host	E Coli
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.
Purity/Purification	>95% as determined by SDS-PAGE
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.
Molecular Weight	16 kDa
Active Protein Note	Protein activity can be an ambiguous term. Please refer to the data sheet or inquire with Technical Support to determine the definition of activity for this product.
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.
Product Categories/Family for FGF1 active protein	Actin Dynamics Signaling Pathway
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 References and Citations for FGF1 active protein	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.
Other Notes	Small volumes of FGF1 active protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for FGF1 purchase	MBS8119946 is an active protein targeting FGF1. Also known as FGF1 Protein, Human, Recombinant. Host: E Coli.



SDS-Page of FGF1 active protein



Testing Data of FGF1 active protein
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 DETAILS

NCBI/Uniprot data below describe general gene information for FGF1. It may not necessarily be applicable to this product.

NCBI GI #	181942
NCBI GeneID	2246
NCBI Accession #	AAA79245.1
UniProt Related Accession #	P05230
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
Protein Family	Fibroblast growth factor
NCBI Protein Information	fibroblast growth factor 1
NCBI Summary for FGF1	The protein encoded by this gene is a member of the fibroblast growth factor (FGF) family. FGF family members possess broad mitogenic and cell survival activities, and are involved in a variety of biological processes, including embryonic development, cell growth, morphogenesis, tissue repair, tumor growth and invasion. This protein functions as a modifier of endothelial cell migration and proliferation, as well as an angiogenic factor. It acts as a mitogen for a variety of mesoderm- and neuroectoderm-derived cells in vitro, thus is thought to be involved in organogenesis. Multiple alternatively spliced variants encoding different isoforms have been described. [provided by RefSeq, Jan 2009]
Research Articles on FGF1	**1.** Gas5 regulated proliferation and apoptosis in growth plate by controlling FGF1 expression via miR-21 regulation.

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