FGF1 Mouse Recombinant Protein

PRODUCT OVERVIEW

Product Name	FGF1, Recombinant Protein
Full Product Name	Recombinant Mouse FGF1 Protein
Product Gene Name	FGF1 recombinant protein
Product Synonym Names	FGFA; Fibroblast growth factor 1; FGF-1; Acidic fibroblast growth factor; aFGF; Endothelial cell growth factor; ECGF; Heparin-binding growth factor 1; HBGF-1
Sequence	FNLPLGNYKK PKLLYCSNGG HFLRILPDGT VDGTRDRSDQ HIQLQLSAES AGEVYIKGTE TGQYLAMDTE GLLYGSQTPN EECLFLERLE ENHYNTYTSK KHAEKNWFVG LKKNGSCKRG PRTHYGQKAI LFLPLPVSSD
Host	E Coli
Species Reactivity	Mouse
Form/Format	Lyophilized from a 0.2 muM filtered solution of 20mM Tris-HCl, 500mM NaCl, pH 6.6.
Purity/Purification	Greater than 95% as determined by SEC-HPLC and reducing SDS-PAGE.
Preparation and Storage	Lyophilized protein should be stored at -20 degree C, though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at 2-8 degree C for 2-7 days. Aliquots of reconstituted samples are stable at -20 degree C for 3 months.
Molecular Weight	17,418 Da
3D Structure	ModBase 3D Structure for P61148
Endotoxin	Less than 0.1 ng/mug (1 IEU/mug) as determined by LAL test.
Directions for Use	Always centrifuge tubes before opening. Do not mix by vortex or pipetting. It is not recommended to reconstitute to a concentration less than 100 mug/ml. Dissolve the lyophilized protein in 1X PBS. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.
Applications Tested/Suitable for FGF1 recombinant protein	ELISA (EIA),Western Blot (WB), SDS-PAGE, Mass Spectrometry (MS)
Related Product Information for FGF1 recombinant protein	Recombinant Mouse FGF1 Protein is produced by our E Coli expression system and the target gene encoding Phe16-Asp155 is expressed.
Other Notes	Small volumes of FGF1 recombinant 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	MBS8249032 is a recombinant protein targeting FGF1. Also known as Recombinant Mouse FGF1 Protein. Reactive in Mouse. Host: E Coli.

ADDITIONAL DETAILS

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

NCBI GI #	6753850
NCBI GeneID	14164
NCBI Accession #	NP_034327.1
UniProt Primary Accession #	P61148
UniProt Secondary Accession #	P10935

UniProt Related Accession #	P61148
GenBank Nucleotide #	NM_010197.3
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
UniProt Protein Name	Fibroblast growth factor 1
UniProt Synonym Protein Names	Acidic fibroblast growth factor; aFGF; Heparin-binding growth factor 1; HBGF-1
Protein Family	Fibroblast growth factor
UniProt Gene Name	Fgf1
UniProt Synonym Gene Names	Fgf-1; Fgfa; FGF-1; aFGF; HBGF-1
UniProt Entry Name	FGF1_MOUSE
NCBI Protein Information	fibroblast growth factor 1
UniProt Comments for FGF1	FGF1: Plays an important role in the regulation of cell survival, cell division, angiogenesis, cell differentiation and cell migration. Functions as potent mitogen in vitro. Monomer. Homodimer. Interacts with FGFR1, FGFR2, FGFR3 and FGFR4. Affinity between fibroblast growth factors (FGFs) and their receptors is increased by heparan sulfate glycosaminoglycans that function as coreceptors. Found in a complex with FGFBP1, FGF1 and FGF2. Interacts with FGFBP1. Part of a Cu(2+)-dependent multiprotein aggregate containing FGF1, S100A13 and SYT1. Interacts with SYT1. Interacts with S100A13. Belongs to the heparin-binding growth factors family. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Cell development/differentiation; Cytokine; Motility/polarity/chemotaxis Cellular Component: cytoplasm; cytosol; extracellular region; extracellular space; nucleolus; nucleoplasm; nucleus; proteinaceous extracellular matrix Molecular Function: fibroblast growth factor receptor binding; growth factor activity; heparin binding; Hsp70 protein binding; integrin binding; protein binding Biological Process: activation of MAPK activity; activation of protein kinase B; cardiac muscle cell proliferation; cell proliferation; fibroblast growth factor receptor signaling pathway; induction of an organ; lung development; positive regulation of angiogenesis; positive regulation of cell division; positive regulation of cell migration; positive regulation of cell proliferation; positive regulation of cholesterol biosynthetic process; positive regulation of epithelial cell proliferation; positive regulation of MAP kinase activity; positive regulation of protein amino acid phosphorylation; positive regulation of transcription from RNA polymerase II promoter; positive regulation of transcription, DNA-dependent
Research Articles on FGF1	**1.** These results suggest that FGFs promote hair growth by inducing the anagen phase in resting hair follicles and might be a potential hair growth-promoting agent.
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