Fibroblast Growth Factor 1 (fgf1) Notophthalmus Viridescens Recombinant Protein

PRODUCT OVERVIEW

Product Name	Fibroblast growth factor 1 (fgf1), Recombinant Protein
Full Product Name	Recombinant Notophthalmus viridescens Fibroblast growth factor 1 (fgf1)
Product Gene Name	fgf1 recombinant protein
Product Synonym Gene Name	fgf1
Sequence	QKPKLLYCSN GGYFLRIFPD GKVDGTRDRS DPYIQLQFYA ESVGEVYIKS LETGQYLAMD SDGQLYASQS PSEECLFLER LEENNYNTYK SKVHADKDWF VGIKKNGKTK PGSRTHFGQK AILFLPLPVS SD
Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Form/Format	Lyophilized or liquid (Format to be determined during the manufacturing process)
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE. (lot specific)
Preparation and Storage	Store at -20 degrees C. For long-term storage, store at -20 degrees C or -80 degrees C. Store working aliquots at 4 degrees C for up to one week. Repeated freezing and thawing is not recommended.
Molecular Weight	15,015 Da
Sequence Positions	1-132, Full length protein
Tag Information	This protein contains an N-terminal tag and may also contain a C-terminal tag. Tag types are determined by various factors including tag-protein stability, please inquire for tag information.
Sterility	Sterile filter available upon request.
Endotoxin	Low endotoxin available upon request.
3D Structure	ModBase 3D Structure for Q7SIF8
Species	Notophthalmus viridescens (Eastern newt) (Triturus viridescens)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for fgf1 recombinant protein	MBS1386413 is a recombinant protein targeting fgf1. Also known as Recombinant Notophthalmus viridescens Fibroblast growth factor 1 (fgf1). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
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.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for fgf1. It may not necessarily be applicable to this product.

NCBI GI #	55583918
NCBI Accession #	Q7SIF8.1
UniProt Primary Accession #	Q7SIF8
NCBI Official Full Name	Fibroblast growth factor 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; FGF-1; aFGF; HBGF-1
UniProt Comments for 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. Acts as a ligand for FGFR1 and integrins. Binds to FGFR1 in the presence of heparin leading to FGFR1 dimerization and activation via sequential autophosphorylation on tyrosine residues which act as docking sites for interacting proteins, leading to the activation of several signaling cascades. Binds to integrins. Its binding to integrins and subsequent ternary complex formation with integrins and FGFR1 are essential for FGF1 signaling.
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