Fibroblast Growth Factor 4 (FGF4) Mouse Recombinant Protein

PRODUCT OVERVIEW

Product Name	Fibroblast growth factor 4 (Fgf4), Recombinant Protein
Full Product Name	Recombinant Mouse Fibroblast growth factor 4 (Fgf4)
Product Gene Name	Fgf4 recombinant protein
Sequence	APNGTRHAEL GHGWDGLVAR SLARLPVAAQ PPQAAVRSGA GDYLLGLKRL RRLYCNVGIG FHLQVLPDGR IGGVHADTRD SLLELSPVQR GVVSIFGVAS RFFVAMSSRG KLFGVPFFTD ECKFKEILLP NNYNAYESYA YPGMFMALSK NGRTKKGNRV SPTMKVTHFL PRL
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	21,919 Da
Sequence Positions	30-202, 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 P11403
Species	Mouse
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for Fgf4 recombinant protein	This protein 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 gene was identified by its oncogenic transforming activity. This gene and FGF3, another oncogenic growth factor, are located closely on chromosome 11. Co-amplification of both genes was found in various kinds of human tumors. Studies on the mouse homolog suggested a function in bone morphogenesis and limb development through the sonic hedgehog (SHH) signaling pathway.
Other Notes	Small volumes of Fgf4 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 Fgf4 purchase	MBS960483 is a recombinant protein targeting Fgf4. Also known as Recombinant Mouse Fibroblast growth factor 4 (Fgf4). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for Fgf4. It may not necessarily be applicable to this product.

NCBI GI #	66955870
NCBI GeneID	14175

NCBI Accession #	NP_034332.2
UniProt Primary Accession #	P11403
UniProt Secondary Accession #	P15657; Q542N0
UniProt Related Accession #	P11403
GenBank Nucleotide #	NM_010202.6
NCBI Official Full Name	fibroblast growth factor 4
NCBI Official Synonym Full Names	fibroblast growth factor 4
NCBI Official Symbol	Fgf4
NCBI Official Synonym Symbols	KS3; hst; Fgfk; Hst1; kFGF; Fgf-4; hst-1; HBGF-4; Hstf-1
UniProt Protein Name	Fibroblast growth factor 4
UniProt Synonym Protein Names	Heparin-binding growth factor 4; HBGF-4; K-fibroblast growth factor
Protein Family	Fibroblast growth factor
UniProt Gene Name	Fgf4
UniProt Synonym Gene Names	Fgf-4; Kfgf; FGF-4; HBGF-4
NCBI Protein Information	fibroblast growth factor 4
UniProt Comments for Fgf4	Plays an important role in the regulation of embryonic development, cell proliferation, and cell differentiation. Is essential for survival of the postimplantation mouse embryo. Required for normal limb and cardiac valve development during embryogenesis.
Research Articles on Fgf4	**1.** Klf5 suppresses Fgf4-Fgfr-ERK signalling, thus preventing precocious activation of the primitive endoderm specification programme
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
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