Fibroblast Growth Factor Receptor 4 (fgfr4) Danio Rerio Recombinant Protein

PRODUCT OVERVIEW

Product Name	Fibroblast growth factor receptor 4 (fgfr4), Recombinant Protein
Full Product Name	Recombinant Danio rerio Fibroblast growth factor receptor 4 (fgfr4), partial
Product Gene Name	fgfr4 recombinant protein
Product Synonym Gene Name	fgfr4
Sequence	R SITSGEPRAK DIRVSRHILT PGYPENATVL VGGHVKLVCK LHQPASTRLQ WFKKDSNRLG PDGSPVLTAL TPLLENLSKV NIFPLVNISL EDAGEYVCKA ENSAGQATRS AWVEVLSEVS EEPTEEPSEH LLLELGDVLK LRCDTNRPGA VQWFKSGVRV QHNARIQIRA AVMEIADVTY EDSGVYVCML RGTKEALRNF TITVADAVGS GDDDDEDNGL DDIGPETEND QVYISRAPYW THTQRMEKKL YAVPAGNTVK FRCPATGSPL PTIRWLKNGR EFRGEHRIGG IKLRHQHWSL VMESVVPSDR GNYSCVVENK YGSIAHTYLL DVLERSPHRP ILQAGLPKNT TAIVGGDAQF LCKVYSDAQP HIQWLKHIEM NGSRYGPDGI PYVKIVKTGS LNMSEVEVLY LTNISMEDAG EYSCLAGNSI GFSHQSAWLT VLSEEDVAKE VDLMEAKYTD
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	103,465 Da
Sequence Positions	20-480
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 Q90413
Species	Zebrafish
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for fgfr4 recombinant protein	MBS1319076 is a recombinant protein targeting fgfr4. Also known as Recombinant Danio rerio Fibroblast growth factor receptor 4 (fgfr4), partial. Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of fgfr4 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 fgfr4. It may not necessarily be applicable to this product.

NCBI GI #	18858679
NCBI GeneID	100000160
NCBI Accession #	NP_571505.1
UniProt Primary Accession #	Q90413

UniProt Related Accession #	Q90413
GenBank Nucleotide #	NM_131430.1
NCBI Official Full Name	fibroblast growth factor receptor 4
NCBI Official Synonym Full Names	fibroblast growth factor receptor 4
NCBI Official Symbol	fgfr4
NCBI Official Synonym Symbols	wu:fc13h10; zgc:111935; etID309818.21
UniProt Protein Name	Fibroblast growth factor receptor 4
Protein Family	Fibroblast growth factor receptor
UniProt Gene Name	fgfr4
UniProt Synonym Gene Names	FGFR-4
NCBI Protein Information	fibroblast growth factor receptor 4
UniProt Comments for fgfr4	Tyrosine-protein kinase that acts as cell-surface receptor for fibroblast growth factors and plays a role in the regulation of cell proliferation, differentiation and migration, and in regulation of lipid metabolism, bile acid biosynthesis, glucose uptake, vitamin D metabolism and phosphate homeostasis. Required for normal down-regulation of the expression of CYP7A1, the rate-limiting enzyme in bile acid synthesis, in response to FGF19. Phosphorylates PLCG1 and FRS2. Ligand binding leads to the activation of several signaling cascades. Activation of PLCG1 leads to the production of the cellular signaling molecules diacylglycerol and inositol 1,4,5-trisphosphate. Phosphorylation of FRS2 triggers recruitment of GRB2, GAB1, PIK3R1 and SOS1, and mediates activation of RAS, MAPK1/ERK2, MAPK3/ERK1 and the MAP kinase signaling pathway, as well as of the AKT1 signaling pathway ().
Research Articles on fgfr4	**1.** Fgfr4 mediates a signal-transduction pathway between Wnt16 and Dlc, but not Dld, to regulate haematopoietic stem cells specification.
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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