Phosphatidylinositol 4-Kinase Type 2-Alpha (pi4k2a) Danio Rerio Recombinant Protein

PRODUCT OVERVIEW

Product Name	Phosphatidylinositol 4-kinase type 2-alpha (pi4k2a), Recombinant Protein
Full Product Name	Recombinant Danio rerio Phosphatidylinositol 4-kinase type 2-alpha (pi4k2a)
Product Gene Name	pi4k2a recombinant protein
Product Synonym Gene Name	pi4k2a
Sequence	MDETSPLVSP LRDSNDFNYG PAEPTSPRGG FGSTPGSVVR LPAGSPGRSR ERQPLLDRDR GASPRDPHRN EFPEDPEFRE IIRKAERAIE EGIYPERIYQ GSSGSYFVKD SAGKIIGVFK PKNEEPYGQL NPKWTKWLQK LCCPCCFGRD CLVLNQGYLS EAGASLVDQK LELNIVPRTK VVYLASETFN YSAIDRVKSR GKRLALEKVP KVGQRFHRIG LPPKVGSFQI FVEGYKDADF WLRRFEAEPL PENTNRQLQL QFERLVVLDY IIRNTDRGND NWLIKYDYPM DTSSNRDSDW VLVKDPIIKL AAIDNGLAFP LKHPDSWRAY PFYWAWLPQA KVVFSQEIRD LVLPKLADPN FIKDLEEDLY ELFKKDPGFD RGQFKKQVSV MRGQILNLSQ AMRDGKTPLQ LVQMPPVIVE TARVPQRANS ESYTQSFQSR RPFFTWW
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	51,443 Da
Sequence Positions	1-447, 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 Q6PE18
Species	Zebrafish
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for pi4k2a recombinant protein	MBS1422840 is a recombinant protein targeting pi4k2a. Also known as Recombinant Danio rerio Phosphatidylinositol 4-kinase type 2-alpha (pi4k2a). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of pi4k2a 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 pi4k2a. It may not necessarily be applicable to this product.

NCBI GI #	47087019
NCBI GeneID	406667
NCBI Accession #	NP_998523.1
UniProt Primary Accession #	Q6PE18

UniProt Secondary Accession #	Q52PF3; A5PF25
UniProt Related Accession #	Q6PE18
GenBank Nucleotide #	NM_213358.1
NCBI Official Full Name	phosphatidylinositol 4-kinase type 2-alpha
NCBI Official Synonym Full Names	phosphatidylinositol 4-kinase type 2 alpha
NCBI Official Symbol	pi4k2a
NCBI Official Synonym Symbols	pi4kii; zgc:63646; wu:fc84f05; pi4kII alpha
UniProt Protein Name	Phosphatidylinositol 4-kinase type 2-alpha
UniProt Synonym Protein Names	Phosphatidylinositol 4-kinase type II-alpha
Protein Family	Phosphatidylinositol 4-kinase
UniProt Gene Name	pi4k2a
UniProt Synonym Gene Names	pi4kii
NCBI Protein Information	phosphatidylinositol 4-kinase type 2-alpha
UniProt Comments for pi4k2a	Membrane-bound phosphatidylinositol-4 kinase (PI4-kinase) that catalyzes the phosphorylation of phosphatidylinositol (PI) to phosphatidylinositol 4-phosphate (PI4P), a lipid that plays important roles in endocytosis, Golgi function, protein sorting and membrane trafficking. Besides, phosphorylation of phosphatidylinositol (PI) to phosphatidylinositol 4-phosphate (PI4P) is the first committed step in the generation of phosphatidylinositol 4,5-bisphosphate (PIP2), a precursor of the second messenger inositol 1,4,5-trisphosphate (InsP3).
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