Phosphatidylinositol 4-Kinase Type 2-Alpha (PI4K2A) Human Recombinant Protein

PRODUCT OVERVIEW

Product Name	Phosphatidylinositol 4-kinase type 2-alpha (PI4K2A), Recombinant Protein
Full Product Name	Recombinant Human Phosphatidylinositol 4-kinase type 2-alpha (PI4K2A)
Product Gene Name	PI4K2A recombinant protein
Product Synonym Gene Name	PI4K2A
Sequence	MDETSPLVSP ERAQPPDYTF PSGSGAHFPQ VPGGAVRVAA AAGSGPSPPG SPGHDRERQP LLDRARGAAA QGQTQTVAAQ AQALAAQAAA AAHAAQAHRE RNEFPEDPEF EAVVRQAELA IERCIFPERI YQGSSGSYFV KDPQGRIIAV FKPKNEEPYG HLNPKWTKWL QKLCCPCCFG RDCLVLNQGY LSEAGASLVD QKLELNIVPR TKVVYLASET FNYSAIDRVK SRGKRLALEK VPKVGQRFNR IGLPPKVGSF QLFVEGYKDA DYWLRRFEAE PLPENTNRQL LLQFERLVVL DYIIRNTDRG NDNWLIKYDC PMDSSSSRDT DWVVVKEPVI KVAAIDNGLA FPLKHPDSWR AYPFYWAWLP QAKVPFSQEI KDLILPKISD PNFVKDLEED LYELFKKDPG FDRGQFHKQI AVMRGQILNL TQALKDNKSP LHLVQMPPVI VETARSHQRS SSESYTQSFQ SRKPFFSWW
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	54,022 Da
Sequence Positions	1-479, 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.
OMIM	609763
3D Structure	ModBase 3D Structure for Q9BTU6
Species	Human
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for PI4K2A recombinant protein	MBS1331305 is a recombinant protein targeting PI4K2A. Also known as Recombinant Human 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 #	13559514
NCBI GeneID	55361
NCBI Accession #	NP_060895.1

UniProt Primary Accession #	Q9BTU6
UniProt Secondary Accession #	Q9NSG8; D3DR59
UniProt Related Accession #	Q9BTU6
GenBank Nucleotide #	NM_018425.3
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; PIK42A
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
NCBI Protein Information	phosphatidylinositol 4-kinase type 2-alpha
NCBI Summary for PI4K2A	Phosphatidylinositolpolyphosphates (PtdInsPs) are centrally involved in many biologic processes, ranging from cell growth and organization of the actin cytoskeleton to endo- and exocytosis. PI4KII phosphorylates PtdIns at the D-4 position, an essential step in the biosynthesis of PtdInsPs (Barylko et al., 2001 [PubMed 11244087]).[supplied by OMIM, Mar 2008]
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 and is required for prolonged survival of neurons. 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).
Research Articles on PI4K2A	**1.** PI-273 is the first substrate-competitive, subtype-specific inhibitor of PI4KIIalpha, the use of which will facilitate evaluations of PI4KIIalpha as a cancer therapeutic target.
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