Inositol-Tetrakisphosphate 1-Kinase 1 (ITPK1) Arabidopsis Thaliana Recombinant Protein

PRODUCT OVERVIEW

Product Name	Inositol-tetrakisphosphate 1-kinase 1 (ITPK1), Recombinant Protein
Full Product Name	Recombinant Arabidopsis thaliana Inositol-tetrakisphosphate 1-kinase 1 (ITPK1)
Product Gene Name	ITPK1 recombinant protein
Product Synonym Gene Name	ITPK1
Sequence	MSDSIQERYL VGYALAAKKQ HSFIQPSLIE HSRQRGIDLV KLDPTKSLLE QGKLDCIIHK LYDVYWKENL HEFREKCPGV PVIDLPEAIE RLHNRVSMLE VITQLRFPVS DSERFGVPEQ VVVMDSSVLS GGGALGELKF PVIAKPLDAD GSAKSHKMFL IYDQEGMKIL KAPIVLQEFV NHGGVIFKVY VVGDHVKCVK RRSLPDISEE KIGTSKGSLP FSQISNLTAQ EDKNIEYGED RSLEKVEMPP LSFLTDLAKA MRESMGLNLF NFDVIRDAKD ANRYLIIDIN YFPGYAKMPS YEPVLTEFFW DMVTKKNHV
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	36,220 Da
Sequence Positions	1-319, 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 Q9SBA5
Species	Arabidopsis thaliana (Mouse-ear cress)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for ITPK1 recombinant protein	MBS1342496 is a recombinant protein targeting ITPK1. Also known as Recombinant Arabidopsis thaliana Inositol-tetrakisphosphate 1-kinase 1 (ITPK1). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of ITPK1 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 ITPK1. It may not necessarily be applicable to this product.

NCBI GI #	15237403
NCBI GeneID	831539
NCBI Accession #	NP_197178.1
UniProt Primary Accession #	Q9SBA5
UniProt Secondary Accession #	O81633

UniProt Related Accession #	Q9SBA5
GenBank Nucleotide #	NM_121682.3
NCBI Official Full Name	Inositol 1,3,4-trisphosphate 5/6-kinase family protein
NCBI Official Symbol	ITPK1
NCBI Official Synonym Symbols	3; 4) P3 5/6-kinase 1; 4-TRISPHOSPHATE 5/6-KINASE; Arabidopsis thaliana inositol (1; AtITPK1; inositol (1; INOSITOL 1
UniProt Protein Name	Inositol-tetrakisphosphate 1-kinase 1
UniProt Synonym Protein Names	Inositol 1,3,4-trisphosphate 5/6-kinase 1 (EC:2.7.1.159
Protein Family	Inositol-tetrakisphosphate 1-kinase
UniProt Gene Name	ITPK1
UniProt Synonym Gene Names	AtItpk-1; Inositol-triphosphate 5/6-kinase 1; Ins(1,3,4)P(3) 5/6-kinase 1
NCBI Protein Information	Inositol 1,3,4-trisphosphate 5/6-kinase family protein
NCBI Summary for ITPK1	Encodes a inositol 1,3,4-trisphosphate 5/6-kinase.
UniProt Comments for ITPK1	Kinase that can phosphorylate various inositol polyphosphate such as Ins(3,4,5,6)P4 or Ins(1,3,4)P3. Phosphorylates Ins(3,4,5,6)P4 at position 1 to form Ins(1,3,4,5,6)P5. This reaction is thought to have regulatory importance, since Ins(3,4,5,6)P4 is an inhibitor of plasma membrane Ca2+-activated Cl- channels, while Ins(1,3,4,5,6)P5 is not (). Also phosphorylates Ins(1,3,4)P3 on O-5 and O-6 to form Ins(1,3,4,6)P4, an essential molecule in the hexakisphosphate (InsP6) pathway (PubMed:9126335).
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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