Phosphatidylinositol 4-Phosphate 5-Kinase 1 (PIP5K1) Arabidopsis Thaliana Recombinant Protein

PRODUCT OVERVIEW

Product Name	Phosphatidylinositol 4-phosphate 5-kinase 1 (PIP5K1), Recombinant Protein
Full Product Name	Recombinant Arabidopsis thaliana Phosphatidylinositol 4-phosphate 5-kinase 1 (PIP5K1) , partial
Product Gene Name	PIP5K1 recombinant protein
Product Synonym Gene Name	PIP5K1
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	85,945 Da
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 Q56YP2
Species	Arabidopsis thaliana (Mouse-ear cress)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for PIP5K1 recombinant protein	MBS1351332 is a recombinant protein targeting PIP5K1. Also known as Recombinant Arabidopsis thaliana Phosphatidylinositol 4-phosphate 5-kinase 1 (PIP5K1) , partial. Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of PIP5K1 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 PIP5K1. It may not necessarily be applicable to this product.

NCBI GI #	15219152
NCBI GeneID	838801
NCBI Accession #	NP_173617.1
UniProt Primary Accession #	Q56YP2
UniProt Secondary Accession #	O22503; O82120; Q9LM65
UniProt Related Accession #	Q56YP2
GenBank Nucleotide #	NM_102047.4
NCBI Official Full Name	phosphatidylinositol-4-phosphate 5-kinase 1

NCBI Official Symbol	PIP5K1
NCBI Official Synonym Symbols	ATPIP5K1; ATPIPK1; PHOSPHATIDYLINOSITOL-4-PHOSPHATE 5-KINASE; phosphatidylinositol-4-phosphate 5-kinase 1
UniProt Protein Name	Phosphatidylinositol 4-phosphate 5-kinase 1
UniProt Synonym Protein Names	1-phosphatidylinositol 4-phosphate kinase 1; Diphosphoinositide kinase 1; PtdIns(4)P-5-kinase 1
UniProt Gene Name	PIP5K1
UniProt Synonym Gene Names	P5K1; AtPIP5K1
NCBI Protein Information	phosphatidylinositol-4-phosphate 5-kinase 1
NCBI Summary for PIP5K1	Type I phosphatidylinositol-4-phosphate 5-kinase. Preferentially phosphorylates PtdIns4P. Induced by water stress and abscisic acid in Arabidopsis thaliana. Expressed in procambial cells of leaves, flowers and roots. A N-terminal Membrane Occupation and Recognition Nexus (MORN)affects enzyme activity and distribution.
UniProt Comments for PIP5K1	Catalyzes the synthesis of phosphatidylinositol 4,5-bisphosphate and phosphatidylinositol 3,4-bisphosphate.
Research Articles on PIP5K1	**1.** PIP5K1 and PIP5K2 are expressed during early stages of pollen development and their transcriptional activity respond to auxin in pollen grains. PIP5K1, PIP5K2 and phosphoinositide signaling are important cues for early developmental stages and vacuole formation during microgametogenesis.
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