Phosphoenolpyruvate Carboxylase Kinase 1 (PPCK1) Arabidopsis Thaliana Recombinant Protein

PRODUCT OVERVIEW

Product Name	Phosphoenolpyruvate carboxylase kinase 1 (PPCK1), Recombinant Protein
Full Product Name	Recombinant Arabidopsis thaliana Phosphoenolpyruvate carboxylase kinase 1 (PPCK1)
Product Gene Name	PPCK1 recombinant protein
Product Synonym Gene Name	PPCK1
Sequence	MTCSQTLGNN NTNKYQICEE IGRGRFGTVS RVYAPATGDF FACKTIDKAS LSDDLDRACL DNEPKLMALL SYHPNIVQIH DLIDTDSTLS IFMELVHPSV SIYDRLVSSG TFFEPQTASF AKQILQALSH CHRYGVVHRD IKPENILVDL RNDTVKICDF GSGIWLGEGE TTEGVVGTPY YVAPEVLMGY SYGEKVDLWS AGVVLYTMLA GTPPFYGETA EEIFEAVLRG NLRFPTKIFR GVSSMAKDFL RKLICKDASR RFSAEQALRH PWIQRAGETE ERFI
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	31,829 Da
Sequence Positions	1-284, 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 Q9SPK4
Species	Arabidopsis thaliana (Mouse-ear cress)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for PPCK1 recombinant protein	MBS1334315 is a recombinant protein targeting PPCK1. Also known as Recombinant Arabidopsis thaliana Phosphoenolpyruvate carboxylase kinase 1 (PPCK1). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of PPCK1 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 PPCK1. It may not necessarily be applicable to this product.

NCBI GI #	15223870
NCBI GeneID	837387
NCBI Accession #	NP_172341.1
UniProt Primary Accession #	Q9SPK4

UniProt Secondary Accession #	Q9FRS0
UniProt Related Accession #	Q9SPK4
GenBank Nucleotide #	NM_100738.3
NCBI Official Full Name	phosphoenolpyruvate carboxylase kinase 1
NCBI Official Symbol	PPCK1
NCBI Official Synonym Symbols	ATPPCK1; PHOSPHOENOLPYRUVATE CARBOXYLASE KINASE; phosphoenolpyruvate carboxylase kinase 1; PHOSPHOENOLPYRUVATE CARBOXYLASE KINASE 1
UniProt Protein Name	Phosphoenolpyruvate carboxylase kinase 1
Protein Family	Phosphoenolpyruvate carboxylase kinase
UniProt Gene Name	PPCK1
UniProt Synonym Gene Names	AtPPCK1
NCBI Protein Information	phosphoenolpyruvate carboxylase kinase 1
NCBI Summary for PPCK1	Encodes a phosphoenolpyruvate carboxylase kinase that is expressed at highest levels in leaves. Expression is induced by light.
UniProt Comments for PPCK1	Calcium-independent kinase involved in light-dependent phosphoenolpyruvate carboxylase phosphorylation.
Research Articles on PPCK1	**1.** Phosphoenolpyruvate carboxylase (PEPC) activity was decreased in shoots and roots of ppc2 and ppc3 mutants, and phosphate starvation increased the expression of all PEPC and phosphoenolpyruvate carboxylase kinase genes in shoots, but only PPC3 and PPCK2 in roots
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