Phosphoinositide Phospholipase C 2 (PLC2) Arabidopsis Thaliana Recombinant Protein

PRODUCT OVERVIEW

Product Name	Phosphoinositide phospholipase C 2 (PLC2), Recombinant Protein
Full Product Name	Recombinant Arabidopsis thaliana Phosphoinositide phospholipase C 2 (PLC2) , partial
Product Gene Name	PLC2 recombinant protein
Product Synonym Gene Name	PLC2
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	66,122 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 Q39033
Species	Arabidopsis thaliana (Mouse-ear cress)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for PLC2 recombinant protein	MBS1422908 is a recombinant protein targeting PLC2. Also known as Recombinant Arabidopsis thaliana Phosphoinositide phospholipase C 2 (PLC2) , partial. Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of PLC2 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 PLC2. It may not necessarily be applicable to this product.

NCBI GI #	79313161
NCBI GeneID	819999
NCBI Accession #	NP_001030660.1
UniProt Primary Accession #	Q39033
UniProt Secondary Accession #	Q56XL3; Q8LG47
UniProt Related Accession #	Q39033
GenBank Nucleotide #	NM_001035583.1
NCBI Official Full Name	phospholipase C 2
NCBI Official Symbol	PLC2

NCBI Official Synonym Symbols	ATPLC2; phospholipase C 2
UniProt Protein Name	Phosphoinositide phospholipase C 2
UniProt Synonym Protein Names	Phosphoinositide phospholipase PLC2; AtPLC2; PI-PLC2
Protein Family	Phosphoinositide phospholipase
UniProt Gene Name	PLC2
UniProt Synonym Gene Names	AtPLC2; PI-PLC2
NCBI Protein Information	phospholipase C 2
NCBI Summary for PLC2	Phosphoinositide-specific phospholipase C (PI-PLC), catalyzes hydrolysis of phosphatidylinositol 4,5-bisphosphate into inositol 1,4,5-trisphosphate and diacylglycerol.
UniProt Comments for PLC2	The production of the second messenger molecules diacylglycerol (DAG) and inositol 1,4,5-trisphosphate (IP3) is mediated by activated phosphatidylinositol-specific phospholipase C enzymes. At physiological calcium concentration, the preferred substrate is phosphatidylinositol 4,5-bisphosphate versus phosphatidylinositol.
Research Articles on PLC2	**1.** essential for female gametogenesis and embryo development
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