Type I Inositol 1,4,5-Trisphosphate 5-Phosphatase 2 (IP5P2) Arabidopsis Thaliana Recombinant Protein

PRODUCT OVERVIEW

Product Name	Type I inositol 1,4,5-trisphosphate 5-phosphatase 2 (IP5P2), Recombinant Protein
Full Product Name	Recombinant Arabidopsis thaliana Type I inositol 1,4,5-trisphosphate 5-phosphatase 2 (IP5P2) , partial
Product Gene Name	IP5P2 recombinant protein
Product Synonym Gene Name	IP5P2
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	70,081 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 Q9FUR2
Species	Arabidopsis thaliana (Mouse-ear cress)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for IP5P2 recombinant protein	MBS1476076 is a recombinant protein targeting IP5P2. Also known as Recombinant Arabidopsis thaliana Type I inositol 1,4,5-trisphosphate 5-phosphatase 2 (IP5P2) , partial. Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of IP5P2 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 IP5P2. It may not necessarily be applicable to this product.

NCBI GI #	18415007
NCBI GeneID	827526
NCBI Accession #	NP_567547.1
UniProt Primary Accession #	Q9FUR2
UniProt Secondary Accession #	O49700; Q9SNF1; Q9ZSC3
UniProt Related Accession #	Q9FUR2
GenBank Nucleotide #	NM_117911.4
NCBI Official Full Name	myo-inositol polyphosphate 5-phosphatase 2

NCBI Official Symbol	IP5PII
NCBI Official Synonym Symbols	4; 5)P3 5-PHOSPHATASE II; 5PTASE2; AT5PTASE2; INOSITOL POLYPHOSPHATE 5-PHOSPHATASE II; INOSITOL(1; myo-inositol polyphosphate 5-phosphatase 2; T6K21.190; T6K21_190
UniProt Protein Name	Type I inositol polyphosphate 5-phosphatase 2
Protein Family	Type I inositol polyphosphate 5-phosphatase
UniProt Gene Name	IP5P2
UniProt Synonym Gene Names	At5PTase2
NCBI Protein Information	myo-inositol polyphosphate 5-phosphatase 2
NCBI Summary for IP5P2	Encodes an inositol polyphosphate 5-phosphatase that appears to have Type I activity. It can dephosphorylate IP3(inositol(1,4,5)P3) and IP4 (inositol(1,3,4,5)P4), but it does not appear to be active against phosphatidylinositol 4,5 bisphosphate. Overexpression of this gene renders plants insensitive to ABA in germination and growth assays.
UniProt Comments for IP5P2	Has phosphatase activity toward Ins(1,4,5)P3 and Ins(1,3,4,5)P4. Seems to be involved in the abscisic acid (ABA) signaling pathway (PubMed:11340187). Could also be able to hydrolyze PtdIns(4,5)P2 and PtdIns(3,4,5)P3 (PubMed:23658066).
Research Articles on IP5P2	**1.** At5PTase1 and At5PTase2 genes have nonredundant roles in hydrolyzing inositol second-messenger substrates and that regulation of myoinositol 1,4,5-trisphosphate levels is important during germination and early seedling development.
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