Type I inositol 1,4,5-trisphosphate 5-phosphatase 2 (IP5P2), Recombinant Protein

CD BioSciences
Plant Protein

Cat *RP05441*

Species
Arabidopsis thaliana (Mouse-ear cress)

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

Purity
Greater or equal to 85% purity as determined by SDS-PAGE. (lot specific)

Format
Lyophilized or liquid (Format to be determined during the manufacturing process)

Host
E Coli or Yeast or Baculovirus or Mammalian Cell

Molecular Weight
70,081 Da

Storage
Store at -20℃. For long-term storage, store at -20℃ or -80℃. Store working aliquots at 4℃ for up to one week. Repeated freezing and thawing is not recommended.

Protein Family
Type I inositol polyphosphate 5-phosphatase

NCBI Accession
NP_567547.1

NCBI GI
18415007

NCBI GenBank Nucleotide
NM_117911.4

NCBI GeneID
827526

NCBI Official Full Name
myo-inositol polyphosphate 5-phosphatase 2

NCBI Official Symbol
IP5PII

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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

NCBI Protein Information

myo-inositol polyphosphate 5-phosphatase 2

NCBI Summary

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 Gene Name

IP5P2

UniProt Synonym Gene Names

At5PTase2

UniProt Protein Name

Type I inositol polyphosphate 5-phosphatase 2

UniProt Primary Accession

Q9FUR2

UniProt Secondary Accession

O49700; Q9SNF1; Q9ZSC3

UniProt Related Accession

Q9FUR2

UniProt Comments

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).

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