Dual Specificity Protein Phosphatase 1b (DSPTP1B) Arabidopsis Thaliana Recombinant Protein

PRODUCT OVERVIEW

Product Name	Dual specificity protein phosphatase 1B (DSPTP1B), Recombinant Protein
Full Product Name	Recombinant Arabidopsis thaliana Dual specificity protein phosphatase 1B (DSPTP1B)
Product Gene Name	DSPTP1B recombinant protein
Product Synonym Gene Name	DSPTP1B
Sequence	MEKVVDLFGV GEANSQKLLE GGKDLSEIQQ GLFIGSVAEA NNKDFLKSSN ITHVLTVAVA LAPPYPDDFV YKVIEVVDRS ETDLTVYFDE CYSFIDQAIQ SGGGVLVHCF MGMSRSVTIV VAYLMKKHGM GFSKAMELVR SRRHQAYPNP GFISQLQQFE KSIQGNA
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	17,315 Da
Sequence Positions	1-167, 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 Q9M8K7
Species	Arabidopsis thaliana (Mouse-ear cress)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for DSPTP1B recombinant protein	MBS1438098 is a recombinant protein targeting DSPTP1B. Also known as Recombinant Arabidopsis thaliana Dual specificity protein phosphatase 1B (DSPTP1B). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of DSPTP1B 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 DSPTP1B. It may not necessarily be applicable to this product.

NCBI GI #	334185120
NCBI GeneID	819784
NCBI Accession #	NP_001189821.1
UniProt Primary Accession #	Q9M8K7

UniProt Secondary Accession #	Q8LDW2
UniProt Related Accession #	Q9M8K7
GenBank Nucleotide #	NM_001202892.1
NCBI Official Full Name	MAPK phosphatase 2
NCBI Official Symbol	MKP2
NCBI Official Synonym Symbols	ARABIDOPSIS MAPK PHOSPHATASE 2; ATMKP2; DSPTP1B; DUAL-SPECIFICITY PROTEIN PHOSPHATASE 1B; F28L1.5; F28L1_5; MAPK phosphatase 2
UniProt Protein Name	Dual specificity protein phosphatase 1B
UniProt Synonym Protein Names	MAPK phosphatase 2; AtMKP2
Protein Family	Dual specificity protein phosphatase
UniProt Gene Name	DSPTP1B
UniProt Synonym Gene Names	MKP2; AtDsPTP1B; AtMKP2
NCBI Protein Information	MAPK phosphatase 2
NCBI Summary for DSPTP1B	Encodes a nuclear-localized MAP kinase phosphatase. Plants with reduced levels of MKP2 transcripts are hypersensitive to ozone and ozone-mediated activation of MPK3 and MPK6 is prolonged in these plants.
UniProt Comments for DSPTP1B	Has a dual specificity toward Ser/Thr and Tyr-containing proteins. Prevents biotic and abiotic stress responses, including ozone, oxidative stress and pathogen attacks; represses MAPK activities during hypersensitive response to limit the spread of the HR response after infection by necrotrophic pathogen such as Botrytis cinerea. May be also involved in ABA and salt responses. Dephosphorylates MPK3 and MPK6.
Research Articles on DSPTP1B	**1.** silencing promoted early leaf senescence
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
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