

Phospholipase A (1) DAD1, chloroplastic (DAD1), Recombinant Protein

Cat RP01822

Size 0.02 mg (E-Coli)/ 0.02 mg (Yeast)/ 0.1 mg (E-Coli)/ 0.1 mg (Yeast)/ 0.02 mg (Baculovirus)/ 0.02 mg (Mammalian-Cell)/ 0.1

mg (Baculovirus)/ 1 mg (E-Coli)/ 1 mg (Yeast)/ 0.1 mg (Mammalian-Cell)/ 1 mg (Baculovirus)/ 0.5 mg (Mammalian-Cell)
Species Arabidopsis thaliana (Mouse-ear cress)

Full Product Name

Recombinant Arabidopsis thaliana Phospholipase A (1) DAD1, chloroplastic (DAD1)

Product Gene Name

DAD1 recombinant protein

Product Synonym Gene Name

DAD1

Purity

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

Sequence

VTSRPPVLP KPETWESLLL NHDQIPGEFS PTGSSIPVKL GRRWMEYQGL QNWDGLLDPL DDNLRREILR
YGQFVESAYQ AFDFDPSSPT YGTCRFPRST LERSGLPNS GYRLTKNLRA TSGINLPRWI EKAPSWMATQ
SSWIGYVAVC QDKEEISRLG RRDVVISFRG TATCLEWLEN LRATLTHLPN GPTGANLNGS NSGPMVESGF
LSLYTSGVHS LRDMVREEIA RLLQSYGDEP LSVTITGHSL GAAIATLAAY DIKTTFKRAP MVTVISFGGP
RVGNRCFRKL LEKQGTKVLR IVNSDDVITK VPGVVLENRE QDNVKMTASI MPSWIQRRVE ETPWVYAEIG
KELRLSSRDS PHLSSINVAT CHELKTYLHL VDGFSSTCP FRETARRVLH R

Sequence Positions

47-447, Full length protein

Format

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

Host

E Coli or Yeast or Baculovirus or Mammalian Cell

Molecular Weight

49,960 Da

Storage

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

Protein Family

Phospholipase

NCBI Accession

NP_001324613.1

NCBI GI

1063706808

FOR RESEARCH OR FURTHER MANUFACTURING USE ONLY

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NCBI GenBank Nucleotide # NM_001337097.1

NCBI GeneID

819090

NCBI Official Full Name

alpha/beta-Hydrolases superfamily protein

NCBI Official Symbol

DAD1

NCBI Official Synonym Symbols

DEFECTIVE ANTHR DEHISCENCE 1; F16B22.45

NCBI Protein Information

alpha/beta-Hydrolases superfamily protein

NCBI Summary

Mutant has defects in anther dehiscence, pollen maturation, and flower opening. The DAD1 protein is a chloroplastic phospholipase A1 that catalyzes the initial step of jasmonic acid biosynthesis.

UniProt Gene Name

DAD1

UniProt Synonym Gene Names

AtDAD1

UniProt Protein Name

Phospholipase A(1) DAD1, chloroplastic

UniProt Synonym Protein Names

Phospholipase A1-Ibeta1; Protein DEFECTIVE IN ANTHR DEHISCENCE 1; AtDAD1

UniProt Primary Accession

Q948R1

UniProt Secondary Accession

O22170; F4IV22

UniProt Related Accession

Q948R1

UniProt Comments

Sn-1-specific phospholipase that releases free fatty acids from phospholipids. Low activity on galactolipids and triacylglycerols. Catalyzes the initial step of jasmonic acid biosynthesis. Not essential for jasmonate biosynthesis after wounding or upon pathogen infection.

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