Protein POLLEN DEFECTIVE IN GUIDANCE 1 (POD1) (AT1G67960), Recombinant Protein



Cat RP00387

Species

Arabidopsis thaliana (Mouse-ear cress)

Full Product Name

Recombinant Arabidopsis thaliana Protein POLLEN DEFECTIVE IN GUIDANCE 1 (POD1)

Product Gene Name

AT1G67960 recombinant protein

Product Synonym Gene Name

Recombinant Protein POLLEN DEFECTIVE IN GUIDANCE 1 (POD1); Protein POLLEN DEFECTIVE IN GUIDANCE 1

Purity

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

Sequence

MAIRSSGRKL SFEILSQNSS FENDDTSIRR SSSDPITGNV ASESPRDYGK RKRSKKKKKK VNQVETILEN GDSHSTIITG SSGDFGETTT MFENRLNYYG GGGSGSSGGG CVVTLLDGQT VHHNGFNFGE LRQRNVNGSV DGSNDERWSD TLSSDKKLYM EETSVELSPS ENPPFQEVQH QFPRSEINGN VVRRLDTEAS LDWKQLVADD PDFLSAETRS PMKYFMEEIY GGISLRSTTT PGNDIERERI YDTIFRLPWR CEVLIDTGFF VCVNSFLSLL TVMPIRVLLI FMDAFKNRQF RRPSASELSD LACFLVLATG TILLGRTDIS LIYHMIRGQS TIKLYVVYNI LEIFDRLCQS FCGDVFGALF SSAKGLSISP PEKLRFSTWR FVSDLALTMA ASILHSFILL AQAITLSTCI VAHNNALLAL LVSNNFAEIK SSVFKRFSKD NIHGLVYADS IERFHISAFL VSVLAQNILE SEGAWFGNFI YNATTVFFCE MMIDIIKHSF LAKFNDIKPI AYSEFLQALC EQTLNIRPED RKTNLTFVPL APACVVIRVL TPVYAAHLPY SPLPWRMLWM VILFVITYIM LTSLKVLIGM GLRKHATWYI NRCRRRNSSH LHND

Sequence Positions

1-624

Chromosome Location

Chromosome: 1; NC_003070.9 (25480652..25484262, complement). Location: chromosome: 1

Format

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

Host

E Coli or Yeast or Baculovirus or Mammalian Cell

Molecular Weight

70,405 Da

Storage

Store at -20°C. For extended storage, store at -20 or -80°C.

NCBI Accession

NP 176963.2

NCBI GI#

FOR RESEARCH OR FURTHER MANUFACTURING USE ONLY

Address: SUITE 209, 17 Ramsey Road, Shirley, NY 11967

Tel: 1-631-637-0420

E-mail: info@cd-biosci.com
https://www.cd-biosciences.com/plant-protein/

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30697603

NCBI GenBank Nucleotide #

NM_105466.2

NCBI GenelD

843124

NCBI Official Full Name

uncharacterized protein

NCBI Official Symbol

AT1G67960

NCBI Official Synonym Symbols

T23K23.19; T23K23_19

NCBI Protein Information

hypothetical protein

UniProt Gene Name

POD1

UniProt Protein Name

Protein POLLEN DEFECTIVE IN GUIDANCE 1

UniProt Entry Name

POD1_ARATH

UniProt Primary Accession #

F4HVJ3

UniProt Secondary Accession #

Q8VZM8; Q9C9W2

UniProt Related Accession #

F4HVJ3

UniProt Comments

Function: Probable component of the calreticulin 3 (CRT3) complex, acting probably as a co-chaperone involved in protein retention in the endoplasmic reticulum lumen. Required for micropylar pollen tube guidance. Plays an essential role in cell plate orientation or positioning in early embryo patterning. Subunit structure: Interacts with CRT3, but not with CRT1 or CNX. Subcellular location: Membrane; Multi-pass membrane protein Potential. Endoplasmic reticulum lumen. Note: Exclusive ER lumen localization and no membrane localization in. Tissue specificity: Expressed in inflorescences, siliques, roots and shoots. Expressed in early embryo, endosperm, mature pollen and pollen tubes, synergide cells and weakly in antipodal cells. Disruption phenotype: Defective in micropylar pollen tube guidance leading to zygotic lethality. Sequence similarities: Belongs to the TAPT1 family. Sequence caution: The sequence AAG51995.1 differs from that shown. Reason: Erroneous gene model

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prediction.

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