Pectinesterase 5 (PME5) Arabidopsis Thaliana Recombinant Protein

PRODUCT OVERVIEW

Product Name	Pectinesterase 5 (PME5), Recombinant Protein
Full Product Name	Recombinant Arabidopsis thaliana Pectinesterase 5 (PME5) , partial
Product Gene Name	PME5 recombinant protein
Product Synonym Gene Name	PME5
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	64,728 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 Q5MFV8
Species	Arabidopsis thaliana (Mouse-ear cress)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for PME5 recombinant protein	MBS1308993 is a recombinant protein targeting PME5. Also known as Recombinant Arabidopsis thaliana Pectinesterase 5 (PME5) , partial. Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of PME5 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 PME5. It may not necessarily be applicable to this product.

NCBI GI #	15226490
NCBI GeneID	819318
NCBI Accession #	NP_182227.1
UniProt Primary Accession #	Q5MFV8
UniProt Secondary Accession #	O80721; Q9SMV9
UniProt Related Accession #	Q5MFV8
GenBank Nucleotide #	NM_130272.4
NCBI Official Full Name	Plant invertase/pectin methylesterase inhibitor superfamily
NCBI Official Symbol	VGD1

NCBI Official Synonym Symbols	F14M4.13; VANGUARD1
UniProt Protein Name	Pectinesterase 5
UniProt Synonym Protein Names	Pectin methylesterase 5; AtPME5; Pectin methylesterase 67; AtPME67; Protein VANGUARD 1
Protein Family	Pectinesterase
UniProt Gene Name	PME5
UniProt Synonym Gene Names	ARATH67; VGD1; PE 5; AtPME5; AtPME67
NCBI Protein Information	Plant invertase/pectin methylesterase inhibitor superfamily
NCBI Summary for PME5	Share high homologies with a group of pectin methylesterases (PME), pollen specific, and is required for enhancing the growth of pollen tube in style and transmitting tract tissues.
UniProt Comments for PME5	Acts in the modification of cell walls via demethylesterification of cell wall pectin. Plays an important role in growth of pollen tubes in female floral tissues, possibly via enhancing the interaction between the pollen tube and female floral tissues by modification of the cell walls (PubMed:15659637). May be regulated by MYB80 during anther development and play a role in tapetum and pollen development (PubMed:21673079).
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