

Pectinesterase 31 (PME31), Recombinant Protein

Cat RP05106

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-
Arabidopsis thaliana (Mouse-ear cress)
Cell)

Species

Full Product Name

Recombinant Arabidopsis thaliana Pectinesterase 31 (PME31)

Product Gene Name

PME31 recombinant protein

Product Synonym Gene Name

PME31

Purity

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

Sequence

MATTRMVRVS QDGS GDYCSV QDAIDSVPLG NTCRTVIRLS PGIYRQPVYV PKRKNFITFA GISPEITVLT
WNNTASKIEH HQASRVIGTG TFGCGSVIVE GEDFIAENIT FENSAPEGSG QAVAIRVTAD RCAFYNCRFL
GWQDTLYLHH GKQYLKDCYI EGSVDFIFGN STALLEHCHI HCKSQGFITA QSRKSSQUEST GYVFLRCVIT
GNGQSGMYL GRPWGPFGRV VLAYTYMDAC IRNVGWHNWG NAENERSACF YEYRCFGPGS
CSSERPWSR ELMDDEAGHF VHHSFVDPEQ DRPWLCRLMG VKTPYSA

Sequence Positions

1-317, 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

35,520 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

Pectinesterase

NCBI Accession

NP_566842.1

NCBI GI

18406048

NCBI GenBank Nucleotide

NM_113832.4

FOR RESEARCH OR FURTHER MANUFACTURING USE ONLY

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(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)

NCBI GeneID

822556

NCBI Official Full Name

pectin methylesterase 31

NCBI Official Symbol

PME31

NCBI Official Synonym Symbols

A. THALIANA PECTIN METHYLESTERASE 31; ATPME31; pectin methylesterase 31

NCBI Protein Information

pectin methylesterase 31

NCBI Summary

Encodes an atypical pectin methylesterase that does not require salt for its activity and has a blockwise mode of pectin demethylesterification.

UniProt Gene Name

PME31

UniProt Synonym Gene Names

ARATH31; PE 31; AtPME31

UniProt Protein Name

Pectinesterase 31

UniProt Synonym Protein Names

Pectin methylesterase 31; AtPME31

UniProt Primary Accession

Q9LVQ0

UniProt Related Accession

Q9LVQ0

UniProt Comments

Acts in the modification of cell walls via demethylesterification of cell wall pectin . Acts in a blockwise manner, resulting in a cell wall rigidification.

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