

# Pectinesterase inhibitor 1 (PMEI1), Recombinant Protein

Cat      *RP05289*

Size      0.02 mg (E-Coli)/ 0.1 mg (E-Coli)/ 0.02 mg (Yeast)/ 0.1 mg  
(Yeast)/ 0.02 mg (Baculovirus)/ 0.02 mg (Mammalian-Cell)/ 1

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

## Full Product Name

Recombinant Arabidopsis thaliana Pectinesterase inhibitor 1 (PMEI1)

## Product Gene Name

PMEI1 recombinant protein

## Product Synonym Gene Name

PMEI1

## Purity

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

## Sequence

ITSSEMSTIC DKTLNPSFCL KFLNTKFASP NLQALAKTTL DSTQARATQT LKKLQSIIDG GVDPRSKLAY  
RSCVDEYESA IGNLEEAFEH LASGDGMGMN MKVSAALDGA DTCLDDVKRL RSVDSVVNN SKTIKNLCGI  
ALVISNMLPR N

## Sequence Positions

26-176, 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

18,967 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 inhibitor

## NCBI Accession #

NP\_175236.1

## NCBI GI #

15221041

## NCBI GenBank Nucleotide #

NM\_103698.3

## NCBI GeneID

841220

**FOR RESEARCH OR FURTHER MANUFACTURING USE ONLY**

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mg (E-Coli)/ 0.1 mg (Baculovirus)/ 1 mg (Yeast)/ 0.1 mg  
(Mammalian-Cell)/ 1 mg (Baculovirus)/ 0.5 mg (Mammalian-  
Cell)

## NCBI Official Symbol

PMEI1

## NCBI Official Synonym Symbols

ARABIDOPSIS THALIANA PECTIN METHYLESTERASE INHIBITOR 1; ATPMEI1; F21D18.29; F21D18\_29;  
pectin methylesterase inhibitor 1; PECTIN METHYLESTERASE INHIBITOR 1-1; PME11-1

## NCBI Protein Information

pectin methylesterase inhibitor 1

## NCBI Summary

Pectin methylesterase inhibitor AtPMEI1. Inactivates AtPPME1 in vitro. Localized to pollen tube cell tip.

## UniProt Gene Name

PMEI1

## UniProt Synonym Gene Names

AtPMEI1

## UniProt Protein Name

Pectinesterase inhibitor 1

## UniProt Synonym Protein Names

Pectin methylesterase inhibitor 1

## UniProt Primary Accession #

Q9LNF2

## UniProt Related Accession #

Q9LNF2

## UniProt Comments

Inhibits pectin methylesterase (PME) from flowers and siliques (PubMed:14675772). Inhibits PME from leaves (PubMed:14741367).

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