

PRA1 family protein D (PRA1D) (MPI7), Recombinant Protein

Cat RP00021

Species

Arabidopsis thaliana (Mouse-ear cress)

Full Product Name

Recombinant *Arabidopsis thaliana* PRA1 family protein D (PRA1D)

Product Synonym Names

Recombinant PRA1 family protein D (PRA1D); PRA1 family protein D; AtPRA1.D; CAMV MOVEMENT PROTEIN-INTERACTING PROTEIN 7 Prenylated Rab acceptor 5

Product Gene Name

MPI7 recombinant protein

Product Synonym Gene Name

PRA1D; MPI7, MPIP7, PRA5

Purity

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

Sequence

MANQVITGIK ETAQSITGAA RPWGDFLDLS AFSFPSSIAD ATTRVTQNLTHFRINYSIIL SILLGLTLIT
RPIAILAFIA VGLAWFFLYF AREEPLTIFG FTIDDGIVAV LLIGLSIGSL VTTGVWLRAL TTVGFGVLVL
ILHAALRGTD DLVSDDLESP YGPMLSTSGG GNDGARGDYS GI

Sequence Positions

1-182

Chromosome Location

Chromosome: 1; NC_003070.9 (1140528..1141365, 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

19,325 Da

Storage

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

NCBI Accession

NP_563704.1

NCBI GI

18379300

NCBI GenBank Nucleotide

NM_100307.2

FOR RESEARCH OR FURTHER MANUFACTURING USE ONLY

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NCBI GeneID

839565

NCBI Official Full Name

PRA1 family protein D

NCBI Official Symbol

MPI7

NCBI Official Synonym Symbols

CAMV movement protein interacting protein 7; CAMV MOVEMENT PROTEIN INTERACTING PROTEIN 7; F19P19.30; F19P19_30; MPI7; MPIP7; PRA1.D; PRENYLATED RAB ACCEPTOR 1.D

NCBI Protein Information

PRA1 family protein D

NCBI Summary

Encodes protein that interacts with CaMV movement protein. Colocalizes in the cytoplasm with the movement protein. Has similarity to mammalian proteins (such as the rat PRA1) which have been described as rab acceptors.

UniProt Gene Name

PRA1D

UniProt Synonym Gene Names

MPI7; MPIP7; PRA5; AtPRA1.D

UniProt Protein Name

PRA1 family protein D

UniProt Synonym Protein Names

CAMV MOVEMENT PROTEIN-INTERACTING PROTEIN 7; Prenylated Rab acceptor 5

UniProt Entry Name

PRA1D_ARATH

UniProt Primary Accession

P93829

UniProt Secondary Accession

Q8LC18

UniProt Related Accession

A86174

UniProt Comments

Function: May be involved in both secretory and endocytic intracellular trafficking in the endosomal/prevacuolar compartments By similarity. Subunit structure: Interacts with PRA1F2 and PRA1F3. Interacts with the cauliflower mosaic virus (CaMV) movement protein (via N-terminus). Subcellular location: Endosome membrane; Multi-pass membrane protein. Tissue specificity: Expressed in hypocotyls, roots, lateral roots, lateral root caps, columella

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cells, leaves, shoot apex, stems and flowers. Sequence similarities: Belongs to the PRA1 family.

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