Serine/threonine-protein kinase PBS1 (PBS1), Recombinant Protein

CD BioSciences
Plant Protein

Cat *RP01859*

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

Species
Arabidopsis thaliana (Mouse-ear cress)

Full Product Name
Recombinant Arabidopsis thaliana Serine/threonine-protein kinase PBS1 (PBS1)

Product Gene Name
PBS1 recombinant protein

Product Synonym Gene Name
PBS1

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

Sequence
MGCFSCFDSS DDEKLNPVDE SNHGQKKQSQ PTVSNNISGL PSGGEKLSSK TNGGSKRELL LPRDGLGQIA AHTFAFRELA AATMNFHPDT FLGEGGFGRV YKGRLDSTGQ VVAVKQLDRN GLQGNREFLV EVLMLSLLHH PNLVNLIGYC ADGDQRLLVY EFMPLGSLED HLHDLPPDKE ALDWNMRMKI AAGAAKGLEF LHDKANPPVI YRDFKSSNIL LDEGFHPKLS DFGLAKLGPT GDKSHVSTRV MGTYGYCAPE YAMTGQLTVK SDVYSFGVVF LELITGRKAI DSEMPHGEQN LVAWARPLFN DRRKFIKLAD PRLKGRFPTR ALYQALAVAS MCIQEQAATR PLIADVVTAL SYLANQAYDP SKDDSRRNRD ERGARLITRN DDGGGSGSKF DLEGSEKEDS PRETARILNR DINRERAVAE AKMWGESLRE KRRQSEQGTS ESNSTG

Sequence Positions
1-456, 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
50,384 Da

Storage
Store at -20℃. For long-term storage, store at -20℃ or -80℃. Store working aliquots at 4℃ for up to one week. Repeated freezing and thawing is not recommended.

Protein Family
Serine/threonine-protein kinase

NCBI Accession
NP_196820.1

NCBI GI
15240038

NCBI GenBank Nucleotide

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/

Serine/threonine-protein kinase PBS1 (PBS1), Recombinant Protein

CD BioSciences
Plant Protein

Cat *RP01859*

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

NM_121319.3

NCBI GeneID
831155

NCBI Official Full Name
Protein kinase superfamily protein

NCBI Official Symbol
PBS1

NCBI Official Synonym Symbols
avrPphB susceptible 1; T19L5.120; T19L5_120

NCBI Protein Information
Protein kinase superfamily protein

NCBI Summary
Mutant is defective in perception of Pseudomonas syringae avirulence gene avrPphB. Encodes a putative serine-threonine kinase.

UniProt Gene Name
PBS1

UniProt Protein Name
Serine/threonine-protein kinase PBS1

UniProt Synonym Protein Names
AvrPphB susceptible protein 1

UniProt Primary Accession
Q9FE20

UniProt Related Accession
Q9FE20

UniProt Comments
Protein kinase required for plant defense mechanism mediated by the disease resistance (R) protein RPS5. In case of infection by Pseudomonas syringae, AvrPphB triggers RPS5-mediated defense mechanism via the cleavage of PBS1. Both kinase activity and cleavage by avrPphB are independently required to trigger the RPS5-mediated resistance. Contributes to PAMP-triggered immunity (PTI) signaling and defense responses downstream of FLS2.

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/