Abscisic acid receptor PYL2 (PYL2), Recombinant Protein

CD BioSciences
Plant Protein

Cat *RP01017*

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

Species
Arabidopsis thaliana (Mouse-ear cress)

Full Product Name
Recombinant Arabidopsis thaliana Abscisic acid receptor PYL2 (PYL2)

Product Gene Name
PYL2 recombinant protein

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

Sequence
MSSSPAVKGL TDEEQKTLEP VIKTYHQFEP DPTTCTSLIT QRIHAPASVV WPLIRRFDNP ERYKHFVKRC RLISGDGDVG SVREVTVISG LPASTSTERL EFVDDDHRVL SFRVVGGEHR LKNYKSVTSV NEFLNQDSGK VYTVVLESYT VDIPEGNTEE DTKMFVDTVV KLNLQKLGVA ATSAPMHDDE

Sequence Positions
1-190, 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
21,282 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
Abscisic acid receptor

NCBI Accession
NP_180174.1

NCBI GI
15225245

NCBI GenBank Nucleotide
NM_128163.2

NCBI GeneID
817145

NCBI Official Full Name
PYR1-like 2

FOR RESEARCH OR FURTHER MANUFACTURING USE ONLY

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/

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NCBI Official Symbol
PYL2

NCBI Official Synonym Symbols
PYR1-like 2; RCAR14; regulatory components of ABA receptor 14; T19L18.15; T19L18_15

NCBI Protein Information
PYR1-like 2

NCBI Summary
Encodes a member of the PYR (pyrabactin resistance)/PYL(PYR1-like)/RCAR (regulatory components of ABA receptor) family proteins with 14 members. PYR/PYL/RCAR family proteins function as abscisic acid sensors. Mediate ABA-dependent regulation of protein phosphatase 2Cs ABI1 and ABI2.

UniProt Gene Name
PYL2

UniProt Synonym Gene Names
RCAR14

UniProt Protein Name
Abscisic acid receptor PYL2

UniProt Synonym Protein Names
PYR1-like protein 2; Regulatory components of ABA receptor 14

UniProt Primary Accession
O80992

UniProt Comments
Receptor for abscisic acid (ABA) required for ABA-mediated responses such as stomatal closure and germination inhibition. Inhibits the activity of group-A protein phosphatases type 2C (PP2Cs) when activated by ABA (PubMed:19893533, PubMed:19898420, PubMed:23844015, PubMed:21658606). Can be activated by both (-)-ABA and (+)-ABA (PubMed:23844015).

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