

Two-component response regulator ARR4 (ARR4), Recombinant Protein

Cat *RP01803*

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)/ 0.1

mg (Baculovirus)/ 1 mg (E-Coli)/ 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 Two-component response regulator ARR4 (ARR4)

Product Gene Name

ARR4 recombinant protein

Purity

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

Sequence

MARDGGVSC LRRSEMMSVGG IGGIESAPLD LDEVHVLAVD DSLVDRIVIE RLLRITSCKV TAVDSGWRAL
EFLGLDNEKA SAEFDRLKVD LIITDYCMPG MTGYELLKKI KESSNFREVP VVIMSSENVL TRIDRCLEEG
AQDFLLKPKV LADV KRLRSH LTKDVKLSNG NKRKLPEDSS SVNSSLPPPS PPLTISPES PPLTVSTESS
DSSPPLSPVE IFSTSPLSSP IDDEDDDLT SSSEESPIRR QKMRSPGLD

Sequence Positions

1-259, 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

28,297 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

Two-component response regulator

NCBI Accession

NP_172517.1

NCBI GI

15218550

NCBI GenBank Nucleotide

NM_100921.3

NCBI GeneID

837587

FOR RESEARCH OR FURTHER MANUFACTURING USE ONLY

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mg (Baculovirus)/ 1 mg (E-Coli)/ 1 mg (Yeast)/ 0.1 mg (Mammalian-Cell)/ 1 mg (Baculovirus)/ 0.5 mg (Mammalian-Cell)
NCBI Official Full Name
response regulator 4

NCBI Official Symbol

ARR4

NCBI Official Synonym Symbols

ATTR1; IBC7; INDUCED BY CYTOKININ 7; maternal effect embryo arrest 7; MEE7; RESPONSE REGULATOR 1; response regulator 4; T10O24.8; T10O24_8

NCBI Protein Information

response regulator 4

NCBI Summary

Encodes a two-component response regulator. Acts redundantly with ARR3 in the control of circadian period in a cytokinin-independent manner.

UniProt Gene Name

ARR4

UniProt Synonym Gene Names

ATTR1; IBC7

UniProt Protein Name

Two-component response regulator ARR4

UniProt Synonym Protein Names

Response regulator 1

UniProt Primary Accession

O82798

UniProt Related Accession

O82798

UniProt Comments

Functions as response regulator involved in His-to-Asp phosphorelay signal transduction system. Phosphorylation of the Asp residue in the receiver domain activates the ability of the protein to promote the transcription of target genes. Type-A response regulators seem to act as negative regulators of the cytokinin signaling. Modulates red light signaling through its interaction with the phytochrome B photoreceptor.

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