

Probable WRKY transcription factor 8 (WRKY8), Recombinant Protein

Cat RP05071

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

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

Full Product Name

Recombinant Arabidopsis thaliana Probable WRKY transcription factor 8 (WRKY8)

Product Gene Name

WRKY8 recombinant protein

Product Synonym Gene Name

WRKY8

Purity

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

Sequence

MSHEIKDLNN YHYTSSYNHY NINNQNMINL PYVSGPSAYN ANMISSQVG FDLPSKNLSP QGAFELGFEL SPSSSDFFNP SLDQEENGLYN AYNYNSSQKS HEVVGDGAT IKSEVRVSAS PSSSEADHHP GEDSGKIRKK REVRDGGEDD QRSQKVVKTK KKEEKKKEPR VSFMTKTEVD HLEDGYRWRK YGQKAVKNSP YPRSYYRCTT QKCNVKKRVE RSYQDPTVVI TTYESQHNHP IPTNRRRTAMF SGTTASDYNP SSSPIFSDLI INTPRSFSND DLFRVPYAVS NVNPSYHQQQ HGFHQQESEF ELLKEMFPSV FFKQEP

Sequence Positions

1-326, 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

37,294 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

Probable WRKY transcription factor

NCBI Accession

NP_199447.1

NCBI GI

15237428

NCBI GenBank Nucleotide

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)

834678

NCBI Official Full Name

WRKY DNA-binding protein 8

NCBI Official Symbol

WRKY8

NCBI Official Synonym Symbols

ARABIDOPSIS THALIANA WRKY DNA-BINDING PROTEIN 8; ATWRKY8; MPL12.15; MPL12_15; WRKY DNA-binding protein 8

NCBI Protein Information

WRKY DNA-binding protein 8

NCBI Summary

member of WRKY Transcription Factor; Group II-c

UniProt Gene Name

WRKY8

UniProt Protein Name

Probable WRKY transcription factor 8

UniProt Synonym Protein Names

WRKY DNA-binding protein 8

UniProt Primary Accession

Q9FL26

UniProt Related Accession

Q9FL26

UniProt Comments

Transcription factor. Interacts specifically with the W box (5'-TTGAC[CT]-3'), a frequently occurring stress-responsive cis-acting element. Functions as positive regulator of salt stress response. Binds the W box of LTI78/RD29A stress-response gene and directly regulates its transcription under salt stress. Functions antagonistically with VQ9 to regulate sodium and potassium homeostasis under salt stress by regulating the expression of downstream SOS (SALT OVERLY SENSITIVE) stress-responsive genes. The DNA-binding activity of WRKY8 is decreased by VQ9 (PubMed:23451802). Functions as negative regulator of basal resistance to the bacterial pathogen *P. syringae* and as positive regulator of resistance to the fungal pathogen *B. cinerea* (PubMed:20367464). Functions as positive regulator of defense response against tobamovirus (TMV) by regulating both the abscisic acid and ethylene signaling pathways. Positively regulates ABI4 expression and negatively modulates ACS6 and ERF104 expression by directly binding to the W box consensus motifs within their promoters (PubMed:23650359).

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