

WRKY transcription factor 1 (WRKY1), Recombinant Protein

Cat RP05083

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 WRKY transcription factor 1 (WRKY1)

Product Gene Name

WRKY1 recombinant protein

Product Synonym Gene Name

WRKY1

Purity

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

Sequence

MAEVGKVLAS DMELDHSNET KAVDDVVATT DKAEVIPVAV TRTETVVESL ESTDCKELEK LVPHTVASQS
EVDVASPVSE KAPKVSESSG ALSLQSGSEG NSPFIREKVM EDGYNWRKYG QKLVKGNEFV RSYRCTHPN
CKAKKQLERS AGGQVVDTVY FGEHDHPKPL AGAVPINQDK RSDVFTAVSK GEQRIDIVSL IYKLCIVSYD
IMFVEKTSVS SVQTLRQTEP PKIHGGLHVS VIPPADDVKT DISQSSRITG DNTHKDYNP TAKRRKKGGN
IELSPVERST NDSRIVVHTQ TLFDIVNDGY RWRKYGQKSV KGSPYPRSY RCSSPGCPVK KHVERSSHDT
KLLITTYEGK HDHDMPPGRV VTHNNMLDSE VDDKEGDANK TPQSSTLQSI TKDQHVEDHL RKKTKTNGFE
KSLDQGPVLD EKLKEEIKER SDANKDHAAN HAKPEAKSDD KTTVCQEKAV GTLESEEQKP KTEPAQS

Sequence Positions

1-487, 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

51,210 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

WRKY transcription factor

NCBI Accession

NP_178565.1

NCBI GI

15224423

NCBI GenBank Nucleotide

FOR RESEARCH OR FURTHER MANUFACTURING USE ONLY

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

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

NCBI GeneID

815035

NCBI Official Full Name

zinc-dependent activator protein-1

NCBI Official Symbol

ZAP1

NCBI Official Synonym Symbols

ATWRKY1; F1O13.1; F1O13_1; WRKY1; zinc-dependent activator protein-1

NCBI Protein Information

zinc-dependent activator protein-1

NCBI Summary

Encodes WRKY1, a member of the WRKY transcription factors in plants involved in disease resistance, abiotic stress, senescence as well as in some developmental processes. WRKY1 is involved in the salicylic acid signaling pathway. The crystal structure of the WRKY1 C-terminal domain revealed a zinc-binding site and identified the DNA-binding residues of WRKY1.

UniProt Gene Name

WRKY1

UniProt Synonym Gene Names

ZAP1

UniProt Protein Name

WRKY transcription factor 1

UniProt Synonym Protein Names

Transcription factor ZAP1; WRKY DNA-binding protein 1; Zinc-dependent activator protein 1

UniProt Primary Accession

Q9SI37

UniProt Secondary Accession

Q058Q1; Q43388

UniProt Related Accession

Q9SI37

UniProt Comments

Transcription factor. Binds to a 5'-CGTTGACCGAG-3' consensus core sequence which contains a W box, a frequently occurring elicitor-responsive cis-acting element.

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