

Transcription factor-like protein DPB (DPB), Recombinant Protein

Cat RP00525

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)/ 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 Transcription factor-like protein DPB (DPB)

Product Gene Name

DPB recombinant protein

Product Synonym Gene Name

DPB

Purity

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

Sequence

MTTGTGSNSNH NHHESNNNNN NPSTRSWGTA VSGQSVSTSG SMGSPSSRSE QTITVVTSTS DTTFQRLNNL
DIQGDDAGSQ GASGVKKKKR GQRAAGPKT GRGLRQFSMK VCEKVESKGR TTYNEVADEL VAEFALPNND
GTSPDQQQYD EKNIRRRVYD ALNVLMAMDI ISDKKEIQW RGLPRTSLSD IEELKNERLS LRNRIEKKTA
YSQELEEQYV GLQNLIQRNE HLYSSGNAPS GGVALPFILV QTRPHATVEV EISEDMLQVH FDFNSTPFEL
HDDNFVLKTM KFCDQPPQPQ NGRNNSQLVC HNFTPENPNK GPSTGPTPQL DMYETHLQSQ QHQQHSQQLQI
IPMPETNNVT SSADTAPVKS PSLPGIMNSS MKPEN

Sequence Positions

1-385, 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

41,991 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

Transcription factor-like protein

NCBI Accession

NP_001190214.1

NCBI GI

334187399

NCBI GenBank Nucleotide

NM_001203285.1

FOR RESEARCH OR FURTHER MANUFACTURING USE ONLY

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(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)

NCBI GeneID

831847

NCBI Official Full Name

Transcription factor DP

NCBI Official Symbol

DPB

NCBI Official Synonym Symbols

ATDPB; DPB TRANSCRIPTION FACTOR

NCBI Protein Information

Transcription factor DP

NCBI Summary

Encodes a homolog of the animal DP protein. DP, in animals, forms a heterodimer with E2F and plays a central role in G1/S transition in the cell division cycle. DPB has been shown to interact with non phosphorylated E2Fc; when E2Fc is phosphorylated, the formation of the E2Fc/DPB heterodimer is lost.

UniProt Gene Name

DPB

UniProt Synonym Gene Names

DP1; AtDPbB

UniProt Protein Name

Transcription factor-like protein DPB

UniProt Synonym Protein Names

DP-like protein B; AtDPbB; E2F dimerization partner protein B

UniProt Primary Accession

Q9FNY2

UniProt Secondary Accession

Q8LDG3; Q9LZE7

UniProt Related Accession

Q9FNY2

UniProt Comments

Involved in the regulation of the G1/S transition. Increases the DNA binding activity of E2F proteins after heterodimerization. The complex DPB/E2FC restricts cell division and lateral root initiation and may function as a negative regulator of E2F-regulated genes. The interaction with SKP2A is controlled by auxin.

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