

BTB/POZ and TAZ domain-containing protein 2 (BT2), Recombinant Protein

Cat *RP00103*

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-
Arabidopsis thaliana (Mouse-ear cress)*
Cell)

Full Product Name

Recombinant *Arabidopsis thaliana* BTB/POZ and TAZ domain-containing protein 2 (BT2)

Product Gene Name

BT2 recombinant protein

Product Synonym Gene Name

BT2

Purity

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

Sequence

MEAVLVAMSV PATTEDDGFS LITDKLSYNL TPTSDVEIVT SDNRRIPAHS GVLASASPVL MNIMKKPMRR
YRGCGRKVI KILGVPCDAV SVFIKFLYSS SLTEDEMERY GIHLLALSHV YMVTQLKQRC SKGVVQRLTT
ENVVDVLQLA RLC DAPDVCL RSMRLIHSQF KTVEQTEGWK FIQEHPFLE LDILQFIDDA ESRKKRRRRH
RKEQDLYMQL SEAMECIEHI CTQGCTLVGP SNVVDNKKKS MTAEKSEPCK AFSTCYGLQL LIRHFAVCKR
RNNDKGCLRC KRMLQLFRLH SLICDQPDSC RVPLCRQFRK RGEQDKMGE DTKWKLLVTR VVSAKAMTSL
CQSKKNKCEQ AQGV

Sequence Positions

1-364, 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

41,561 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

BTB/POZ and TAZ domain-containing protein

NCBI Accession

NP_566902.1

NCBI GI

18408618

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 GenBank Nucleotide

NM_114697.4

NCBI GeneID

823994

NCBI Official Full Name

BTB and TAZ domain protein 2

NCBI Official Symbol

BT2

NCBI Official Synonym Symbols

ATBT2; BTB and TAZ domain protein 2

NCBI Protein Information

BTB and TAZ domain protein 2

NCBI Summary

encodes a protein (BT2) that is an essential component of the TAC1-mediated telomerase activation pathway. Acts redundantly with BT3 and BT1 during female gametophyte development and with BT3 during male gametophyte development. BT2 also mediates multiple responses to nutrients, stresses, and hormones.

UniProt Gene Name

BT2

UniProt Protein Name

BTB/POZ and TAZ domain-containing protein 2

UniProt Synonym Protein Names

BTB and TAZ domain protein 2

UniProt Primary Accession

Q94BN0

UniProt Secondary Accession

Q9STL6

UniProt Related Accession

Q94BN0

UniProt Comments

May act as a substrate-specific adapter of an E3 ubiquitin-protein ligase complex (CUL3-RBX1-BTB) which mediates the ubiquitination and subsequent proteasomal degradation of target proteins. Plays a key role as a component of the TAC1-mediated telomerase activation pathway certainly by targeting a telomerase repressor to degradation. Seems to occupy an integral position in a complex signaling network that perceives, integrates, and responds to multiple, and sometimes competing, signals. Enhances responses to auxin in postgermination and vegetative development. Also negatively regulates ABA- and sugar-mediated inhibition of the germination.

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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)

Essential for female and male gametophyte development.

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