# BTB/POZ and TAZ Domain-Containing Protein 1 (BT1) Arabidopsis Thaliana Recombinant Protein

## PRODUCT OVERVIEW

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| **Product Name** | BTB/POZ and TAZ domain-containing protein 1 (BT1), Recombinant Protein |
| **Full Product Name** | Recombinant Arabidopsis thaliana BTB/POZ and TAZ domain-containing protein 1 (BT1) |
| **Product Gene Name** | BT1 recombinant protein |
| **Product Synonym Gene Name** | BT1 |
| **Sequence** | MAITATQNDG VSLNANKISY DLVETDVEII TSGRRSIPAH SGILASVSPV LTNIIEKPRK IHGGSSKKVI KILGVPCDAV SVFVRFLYSP SVTENEMEKY GIHLLALSHV YMVTQLKQRC TKGVGERVTA ENVVDILQLA RLCDAPDLCL KCMRFIHYKF KTVEQTEGWK FLQEHDPFLE LDILQFIDDA ESRKKRRRRH RREQNLYLQL SEAMECIEHI CTEGCTLVGP SSNLDNKSTC QAKPGPCSAF STCYGLQLLI RHFAVCKKRV DGKGCVRCKR MIQLLRLHSS ICDQSESCRV PLCRQYKNRG EKDKKMVEDT KWKVLVRRVA SAKAMSSLSQ SKKKKSEVLF KEEAEDLIRI RNKLM |
| **Host** | E Coli or Yeast or Baculovirus or Mammalian Cell |
| **Form/Format** | Lyophilized or liquid (Format to be determined during the manufacturing process) |
| **Purity/Purification** | Greater or equal to 85% purity as determined by SDS-PAGE. (lot specific) |
| **Preparation and Storage** | Store at -20 degrees C. For long-term storage, store at -20 degrees C or -80 degrees C. Store working aliquots at 4 degrees C for up to one week. Repeated freezing and thawing is not recommended. |
| **Molecular Weight** | 41,480 Da |
| **Sequence Positions** | 1-365, Full length protein |
| **Tag Information** | This protein contains an N-terminal tag and may also contain a C-terminal tag. Tag types are determined by various factors including tag-protein stability, please inquire for tag information. |
| **Sterility** | Sterile filter available upon request. |
| **Endotoxin** | Low endotoxin available upon request. |
| **3D Structure** | ModBase 3D Structure for Q9FMK7 |
| **Species** | Arabidopsis thaliana (Mouse-ear cress) |
| **ISO Certification** | Manufactured in an ISO 9001:2015 Certified Laboratory. |
| **Related Product Information for BT1 recombinant protein** | MBS1336609 is a recombinant protein targeting BT1. Also known as Recombinant Arabidopsis thaliana BTB/POZ and TAZ domain-containing protein 1 (BT1). Host: E Coli or Yeast or Baculovirus or Mammalian Cell. |
| **Other Notes** | Small volumes of BT1 recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply. |

## ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for BT1. It may not necessarily be applicable to this product.

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| **NCBI GI #** | 15242656 |
| **NCBI GeneID** | 836437 |
| **NCBI Accession #** | NP_201121.1 |

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| **UniProt Primary Accession #** | Q9FMK7 |
| **UniProt Related Accession #** | Q9FMK7 |
| **GenBank Nucleotide #** | NM_125711.5 |
| **NCBI Official Full Name** | BTB and TAZ domain protein 1 |
| **NCBI Official Symbol** | BT1 |
| **NCBI Official Synonym Symbols** | BTB and TAZ domain protein 1; MDC12.13; MDC12_13 |
| **UniProt Protein Name** | BTB/POZ and TAZ domain-containing protein 1 |
| **UniProt Synonym Protein Names** | BTB and TAZ domain protein 1 |
| **Protein Family** | Adenine nucleotide transporter |
| **UniProt Gene Name** | BT1 |
| **NCBI Protein Information** | BTB and TAZ domain protein 1 |
| **NCBI Summary for BT1** | BTB and TAZ domain protein. Short-lived nuclear-cytoplasmic protein targeted for degradation by the 26S proteosome pathway. Acts redundantly with BT2 and BT3 during female gametophyte development. |
| **UniProt Comments for BT1** | 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. Also targeted for degradation by the 26S proteasome pathway. May be involved in gametophyte development. |
| **Research Articles on BT1** | **1.** direct activation of BT1 and BT2 by NLP transcriptional activators is a key component of the molecular mechanism underlying the nitrate response in Arabidopsis |
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