Transcription Factor Bhlh75 (BHLH75) Arabidopsis Thaliana Recombinant Protein

PRODUCT OVERVIEW

Product Name	Transcription factor bHLH75 (BHLH75), Recombinant Protein
Full Product Name	Recombinant Arabidopsis thaliana Transcription factor bHLH75 (BHLH75)
Product Gene Name	BHLH75 recombinant protein
Sequence	MARFEPYNYN NGHDPFFAHI NQNPELINLD LPASTPSSFM LFSNGALVDA NHNNSHFFPN LLHGNTRRKG NKEESGSKRR RKRSEEEEAM NGDETQKPKD VVHVRAKRGQ ATDSHSLAER VRREKINERL KCLQDLVPGC YKAMGMAVML DVIIDYVRSL QNQIEFLSMK LSAASACYDL NSLDIEPTDI FQGGNIHSAA EMERILRESV GTQPPNFSST LPF
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	25,209 Da
Sequence Positions	1-223, 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 A4D998
Species	Arabidopsis thaliana (Mouse-ear cress)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for BHLH75 recombinant protein	MBS1264690 is a recombinant protein targeting BHLH75. Also known as Recombinant Arabidopsis thaliana Transcription factor bHLH75 (BHLH75). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of BHLH75 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 BHLH75. It may not necessarily be applicable to this product.

NCBI GI #	18395643
NCBI GeneID	839117
NCBI Accession #	NP_564229.1
UniProt Primary Accession #	A4D998
UniProt Secondary Accession #	Q9FRI2; A0ME91
UniProt Related Accession #	A4D998

GenBank Nucleotide #	NM_102343.4
NCBI Official Full Name	basic helix-loop-helix (bHLH) DNA-binding superfamily protein
NCBI Official Symbol	CES
NCBI Official Synonym Symbols	CESTA; F4F7.28; F4F7_28; HAF; HALF FILLED
UniProt Protein Name	Transcription factor bHLH75
UniProt Synonym Protein Names	Basic helix-loop-helix protein 75; AtbHLH75; bHLH 75; Transcription factor EN 78; bHLH transcription factor bHLH075
Protein Family	Transcription factor
UniProt Gene Name	BHLH75
UniProt Synonym Gene Names	EN78; AtbHLH75; bHLH 75
NCBI Protein Information	basic helix-loop-helix (bHLH) DNA-binding superfamily protein
NCBI Summary for BHLH75	Encodes CESTA, a positive regulator of brassinosteroid biosynthesis.
Research Articles on BHLH75	**1.** HALF FILLED (HAF) gene, a bHLH-encoding transcription factor, is required for reproductive tract development. HAF acts redundantly with two closely related genes, BRASSINOSTEROID ENHANCED EXPRESSION1 (BEE1) and BEE3. [HALF FILLED] [HAF]
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