Transcription Factor Bhlh74 (BHLH74) Arabidopsis Thaliana Recombinant Protein

PRODUCT OVERVIEW

Product Name	Transcription factor bHLH74 (BHLH74), Recombinant Protein
Full Product Name	Recombinant Arabidopsis thaliana Transcription factor bHLH74 (BHLH74)
Product Gene Name	BHLH74 recombinant protein
Product Synonym Gene Name	BHLH74
Sequence	MGGESNEGGE MGFKHGDDES GGISRVGITS MPLYAKADPF FSSADWDPVV NAAAAGFSSS HYHPSMAMDN PGMSCFSHYQ PGSVSGFAAD MPASLLPFGD CGGGQIGHFL GSDKKGERLI RAGESSHEDH HQVSDDAVLG ASPVGKRRLP EAESQWNKKA VEEFQEDPQR GNDQSQKKHK NDQSKETVNK ESSQSEEAPK ENYIHMRARR GQATNSHSLA ERVRREKISE RMRLLQELVP GCNKITGKAV MLDEIINYVQ SLQQQVEFLS MKLATVNPEI NIDIDRILAK DLLQSRDRNT PTLGLNPFAG FQGNIPNLSA TTNPQYNPLP QTTLESELQN LYQMGFVSNP STMSSFSPNG RLKPEL
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	40,152 Da
Sequence Positions	1-366, 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 Q6NKN9
Species	Arabidopsis thaliana (Mouse-ear cress)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for BHLH74 recombinant protein	MBS1334713 is a recombinant protein targeting BHLH74. Also known as Recombinant Arabidopsis thaliana Transcription factor bHLH74 (BHLH74). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of BHLH74 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 BHLH74. It may not necessarily be applicable to this product.

NCBI GI #	1063682162
NCBI GeneID	837549
NCBI Accession #	NP_001321212.1
UniProt Primary Accession #	Q6NKN9

UniProt Secondary Accession #	O80604; Q0WL61; Q0WNX7
UniProt Related Accession #	Q6NKN9
GenBank Nucleotide #	NM_001331887.1
NCBI Official Full Name	basic helix-loop-helix (bHLH) DNA-binding superfamily protein
NCBI Official Symbol	AT1G10120
NCBI Official Synonym Symbols	CIB4; CRY2-interacting bHLH 4; T27I1.15; T27I1_15
UniProt Protein Name	Transcription factor bHLH74
UniProt Synonym Protein Names	Basic helix-loop-helix protein 74; AtbHLH74; bHLH 74; Protein ACTIVATOR FOR CELL ELONGATION 2; Transcription factor EN 90; bHLH transcription factor bHLH074
Protein Family	Transcription factor
UniProt Gene Name	BHLH74
UniProt Synonym Gene Names	ACE2; CIB4; EN90; AtbHLH74; bHLH 74
NCBI Protein Information	basic helix-loop-helix (bHLH) DNA-binding superfamily protein
UniProt Comments for BHLH74	Transcriptional activator involved in cell elongation. Regulates the expression of a subset of genes involved in cell expansion by binding to the G-box motif. Binds to chromatin DNA of the FT gene and promotes its expression, and thus triggers flowering in response to blue light (PubMed:24130508).
Research Articles on BHLH74	**1.** MIR396a-mediated bHLH74 repression helps regulate root growth in Arabidopsis seedlings.
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
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