Protein LHY (LHY) Arabidopsis Thaliana Recombinant Protein

PRODUCT OVERVIEW

Product Name	Protein LHY (LHY), Recombinant Protein
Full Product Name	Recombinant Arabidopsis thaliana Protein LHY (LHY) , partial
Product Gene Name	LHY recombinant protein
Product Synonym Gene Name	LHY
Sequence	MDTNTSGEEL LAKARKPYTI TKQRERWTED EHERFLEALR LYGRAWQRIE EHIGTKTAVQ IRSHAQKFFT KLEKEAEVKG IPVCQALDIE IPPPRPKRKP NTPYPRKPGN NGTSSSQVSS AKDAKLVSSA SSSQLNQAFL DLEKMPFSEK TSTGKENQDE NCSGVSTVNK YPLPTKQVSG DIETSKTSTV DNAVQDVPKK NKDKDGNDGT TVHSMQNYPW HFHADIVNGN IAKCPQNHPS GMVSQDFMFH PMREETHGHA NLQATTASAT TTASHQAFPA CHSQDDYRS
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	70,438 Da
Sequence Positions	1-289. Partial
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 Q6R0H1
Species	Arabidopsis thaliana (Mouse-ear cress)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for LHY recombinant protein	MBS1334504 is a recombinant protein targeting LHY. Also known as Recombinant Arabidopsis thaliana Protein LHY (LHY) , partial. Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of LHY 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 LHY. It may not necessarily be applicable to this product.

NCBI GI #	79316217
NCBI GeneID	839341
NCBI Accession #	NP_001030924.1
UniProt Primary Accession #	Q6R0H1
UniProt Secondary Accession #	O81713; Q9MAM8; B9DFD7; B9DFM4

UniProt Related Accession #	Q6R0H1
GenBank Nucleotide #	NM_001035847.1
NCBI Official Full Name	Homeodomain-like superfamily protein
NCBI Official Symbol	LHY
NCBI Official Synonym Symbols	LATE ELONGATED HYPOCOTYL; LATE ELONGATED HYPOCOTYL 1; LHY1; T25K16.6; T25K16_6
UniProt Protein Name	Protein LHY
UniProt Synonym Protein Names	MYB-related transcription factor LHY
Protein Family	Protein
UniProt Gene Name	LHY
NCBI Protein Information	Homeodomain-like superfamily protein
NCBI Summary for LHY	LHY encodes a myb-related putative transcription factor involved in circadian rhythm along with another myb transcription factor CCA1
UniProt Comments for LHY	Transcription factor involved in the circadian clock. Binds to the promoter region of APRR1/TOC1 and TCP21/CHE to repress their transcription. Represses both CCA1 and itself.
Research Articles on LHY	**1.** Transcriptional co-regulators PRR9, PRR7 and PRR5 inhibit morning loop LHY and CCA1 expression by binding to their promoters
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