Protein Thylakoid Formation 1, Chloroplastic (THF1) Arabidopsis Thaliana Recombinant Protein

PRODUCT OVERVIEW

Product Name	Protein THYLAKOID FORMATION 1, chloroplastic (THF1), Recombinant Protein
Full Product Name	Recombinant Arabidopsis thaliana Protein THYLAKOID FORMATION 1, chloroplastic (THF1), partial
Product Gene Name	THF1 recombinant protein
Product Synonym Gene Name	THF1
Sequence	T VLDKLCASLN INKKSVDRDL DVYRNLLSKL VQAKELLKEY VEREKKKQGE RAQSQKANET ISKCLGDTLY NPSFLVERKS
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	33,796 Da
Sequence Positions	220-300
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 Q9SKT0
Species	Arabidopsis thaliana (Mouse-ear cress)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for THF1 recombinant protein	MBS1341011 is a recombinant protein targeting THF1. Also known as Recombinant Arabidopsis thaliana Protein THYLAKOID FORMATION 1, chloroplastic (THF1), partial. Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of THF1 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 THF1. It may not necessarily be applicable to this product.

NCBI GI #	18399513
NCBI GeneID	816623
NCBI Accession #	NP_565491.1
UniProt Primary Accession #	Q9SKT0
UniProt Secondary Accession #	Q8LB69
UniProt Related Accession #	Q9SKT0

GenBank Nucleotide #	NM_127659.4
NCBI Official Full Name	photosystem II reaction center PSB29 protein
NCBI Official Symbol	PSB29
NCBI Official Synonym Symbols	F5H14.14; F5H14_14; photosystem II reaction center PSB29 protein; THF1; THYLAKOID FORMATION1
UniProt Protein Name	Protein THYLAKOID FORMATION 1, chloroplastic
Protein Family	Protein
UniProt Gene Name	THF1
NCBI Protein Information	photosystem II reaction center PSB29 protein
NCBI Summary for THF1	Chloroplast-localized Thylakoid formation1 gene product involved in vesicle-mediated formation of thylakoid membranes. Thf1 antisense lines contain abnormal chloroplasts early in leaf development (chloroplasts have loosely stacked thylakoid membranes). Expression was induced in the light and decreased under dark conditions. G-alpha interaction partner that functions downstream of the plasma membrane#Aeidelimited heterotrimeric G-protein (GPA1) in a D-glucose signaling pathway. Localized to both the outer plastid membrane and the stroma. Probably involved in the metabolic pathway that controls the assembly of the PS II complex.
UniProt Comments for THF1	Involved in a dynamic process of vesicle-mediated thylakoid membrane biogenesis. Required for the normal organization of vesicles into mature thylakoid stacks and ultimately for leaf development. Also involved in a sugar-signaling mechanism in roots by mediating signaling between the plasma membrane and the plastid. Probably acts downstream of the plasma membrane-delimited heterotrimeric G-protein GPA1 in a D-glucose signaling pathway.
Research Articles on THF1	**1.** These results suggest that HCF106 and THF1 form a complex to modulate chloroplast function.
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