Uncharacterized Mitochondrial Protein Atmg01180 (AtMg01180) Arabidopsis Thaliana Recombinant Protein

PRODUCT OVERVIEW

Product Name	Uncharacterized mitochondrial protein AtMg01180 (AtMg01180), Recombinant Protein
Full Product Name	Recombinant Arabidopsis thaliana Uncharacterized mitochondrial protein AtMg01180 (AtMg01180)
Product Gene Name	AtMg01180 recombinant protein
Sequence	MMTLFTQEPS FSIKCLPTTP SKPHRSLLAA RLLFLSISDF SCRCPKIKLS LKGYRFIYCV RVVPSPSSLA KAQSDRLNIG LIRRSLKLCC ARDIRLELGQ VLISIPLLLF L
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	12,525 Da
Sequence Positions	1-111, 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 P92548
Species	Arabidopsis thaliana (Mouse-ear cress)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for AtMg01180 recombinant protein	MBS1130398 is a recombinant protein targeting AtMg01180. Also known as Recombinant Arabidopsis thaliana Uncharacterized mitochondrial protein AtMg01180 (AtMg01180). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of AtMg01180 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 AtMg01180. It may not necessarily be applicable to this product.

NCBI GI #	13449388
NCBI GeneID	3890477
NCBI Accession #	NP_085570.1
UniProt Primary Accession #	P92548
UniProt Secondary Accession #	Q1ZXW8

UniProt Related Accession #	P92544
GenBank Nucleotide #	NC_001284.2
NCBI Official Full Name	hypothetical protein ArthMp044 (mitochondrion)
NCBI Official Symbol	nad1
UniProt Protein Name	Uncharacterized mitochondrial protein AtMg01180
UniProt Synonym Protein Names	ORF111b
UniProt Gene Name	AtMg01180
NCBI Protein Information	NADH dehydrogenase subunit 1; hypothetical protein
UniProt Comments for AtMg01180	MiscellaneousA stretch of 270 kb of the mitochondrial genome is duplicated within the centromere of chromosome 2 resulting in the duplication of the gene. The expression of the duplicated gene is not demonstrated.
Research Articles on AtMg01180	**1.** The production of mature nad1 requires the assembly of 3 independent RNA precursors via 2 trans-splicing reactions. The lack of nad1 in mtsf2 mutants results from the specific destabilization of the nad1 exons 2-3 precursor transcript. MTSF2 binds to its 3 extremity with high affinity. MTSF2 binding to nad1 exons 2-3 precursor stabilizes the transcript and defines a 3 extremity compatible with trans-splicing.
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