DNA-Directed RNA Polymerase 1, Mitochondrial (RPOT1) Arabidopsis Thaliana Recombinant Protein

PRODUCT OVERVIEW

Product Name	DNA-directed RNA polymerase 1, mitochondrial (RPOT1), Recombinant Protein
Full Product Name	Recombinant Arabidopsis thaliana DNA-directed RNA polymerase 1, mitochondrial (RPOT1) , partial
Product Gene Name	RPOT1 recombinant protein
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	110,930 Da
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 P92969
Species	Arabidopsis thaliana (Mouse-ear cress)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for RPOT1 recombinant protein	MBS1121908 is a recombinant protein targeting RPOT1. Also known as Recombinant Arabidopsis thaliana DNA-directed RNA polymerase 1, mitochondrial (RPOT1) , partial. Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of RPOT1 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 RPOT1. It may not necessarily be applicable to this product.

NCBI GI #	15221580
NCBI GeneID	843232
NCBI Accession #	NP_177063.1
UniProt Primary Accession #	P92969
UniProt Secondary Accession #	O23698
UniProt Related Accession #	P92969
GenBank Nucleotide #	NM_105571.4
NCBI Official Full Name	male gametophyte defective 3
NCBI Official Symbol	MGP3

NCBI Official Synonym Symbols	male gametophyte defective 3; T6L1.17; T6L1_17
UniProt Protein Name	DNA-directed RNA polymerase 1, mitochondrial
Protein Family	DNA-directed RNA polymerase
UniProt Gene Name	RPOT1
UniProt Synonym Gene Names	RPOMT
NCBI Protein Information	male gametophyte defective 3
NCBI Summary for RPOT1	MGP3 (male gametophyte-defective 3) belongs to a small family of nuclear-encoded Phage type RNA polymerases (RPOTs) involved in the transcription of mitochondrial genes in Arabidopsis thaliana. Mutation in MGP 3 significantly retarded pollen tube growth and caused defective embryo development.
UniProt Comments for RPOT1	DNA-dependent RNA polymerase catalyzes the transcription of DNA into RNA using the four ribonucleoside triphosphates as substrates.
Research Articles on RPOT1	**1.** evidence for nuclear-encoded RNA polymerases being represented by two phage-type RNA polymerases (RpoTp and RpoTmp) that have overlapping as well as gene-specific functions in the transcription of plastidial genes.
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