Cell Division Topological Specificity Factor Homolog, Chloroplastic (MINE1) Arabidopsis Thaliana Recombinant Protein

PRODUCT OVERVIEW

Product Name	Cell division topological specificity factor homolog, chloroplastic (MINE1), Recombinant Protein
Full Product Name	Recombinant Arabidopsis thaliana Cell division topological specificity factor homolog, chloroplastic (MINE1)
Product Gene Name	MINE1 recombinant protein
Product Synonym Gene Name	MINE1
Sequence	SSSKVDFTGF ISNGVNSLET QKCTPGLAIS RENTRGQVKV LARNTGDYEL SPSPAEQEIE SFLYNAINMG FFDRLNLAWK IIFPSHASRR SSNARIAKQR LKMILFSDRC DVSDEAKRKI VNNIIHALSD FVEIESEEKV QLNVSTDGDL GTIYSVTVPV RRVKPEYQDV DEAGTITNVE YKDTRDGSVD VRFDFYVPE
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	25,748 Da
Sequence Positions	31-229, 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 Q9C4Z7
Species	Arabidopsis thaliana (Mouse-ear cress)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for MINE1 recombinant protein	MBS1353369 is a recombinant protein targeting MINE1. Also known as Recombinant Arabidopsis thaliana Cell division topological specificity factor homolog, chloroplastic (MINE1). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of MINE1 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 MINE1. It may not necessarily be applicable to this product.

NCBI GI #	18409259
NCBI GeneID	843271
NCBI Accession #	NP_564964.1
UniProt Primary Accession #	Q9C4Z7

UniProt Related Accession #	Q9C4Z7
GenBank Nucleotide #	NM_105606.4
NCBI Official Full Name	homologue of bacterial MinE 1
NCBI Official Symbol	MINE1
NCBI Official Synonym Symbols	accumulation and replication of chloroplasts 12; ARC12; ATMINE1; F23O10.25; F23O10_25; homologue of bacterial MinE 1
UniProt Protein Name	Cell division topological specificity factor homolog, chloroplastic
UniProt Synonym Protein Names	Protein ACCUMULATION AND REPLICATION OF CHLOROPLASTS 12
Protein Family	Cell division topological specificity factor
UniProt Gene Name	MINE1
UniProt Synonym Gene Names	ARC12; AtMinE1
NCBI Protein Information	homologue of bacterial MinE 1
NCBI Summary for MINE1	Encodes an Arabidopsis homologue of the bacterial MinE topological specificity factor ensuring correct division site placement. It is an essential integral component of the plastid division machinery.
UniProt Comments for MINE1	Acts as a topological specificity factor during plastid division and specify plastid constriction sites. May contribute to gravitropism in stems and hypocotyls. Stimulates MIND1 ATPase activity. In cooperation with MIND1, prevents FtsZ ring formation anywhere outside of the mid-plastids.
Research Articles on MINE1	**1.** Results suggest that ARC3 directly inhibits Z-ring assembly through interaction with FtsZ2 in heteropolymers and that ARC3 activity is spatially regulated by MinD1 and MinE1 to permit Z-ring assembly at the mid-plastid.
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.
Disclaimer	While every efforts were made to ensure the accuracy of the information provided in this datasheet, MyBioSource will not be liable for any omissions or errors contained herein. MyBioSource reserves the right to make changes to this datasheet at any time without prior notice. It is the responsibility of the customer to report product performance issues to MyBioSource within 30 days of receipt of the product. Please visit our Terms & Conditions page for more information.
Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

For Research Use Only. Not for use in diagnostic or therapeutic procedures.

MyBioSource | Tel: +1.858.633.0165 | Fax: +1.858.633.0166 | mybiosource.com/contact-us
Online datasheet: https://www.mybiosource.com/recombinant-protein/cell-division-topological-specificity-factor-homolog-chloroplastic-mine1/1353369