Dynamin-Like Protein ARC5 (ARC5) Arabidopsis Thaliana Recombinant Protein

PRODUCT OVERVIEW

Product Name	Dynamin-like protein ARC5 (ARC5), Recombinant Protein
Full Product Name	Recombinant Arabidopsis thaliana Dynamin-like protein ARC5 (ARC5) , partial
Product Gene Name	ARC5 recombinant protein
Product Synonym Gene Name	ARC5
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	83,515 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 Q84N64
Species	Arabidopsis thaliana (Mouse-ear cress)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for ARC5 recombinant protein	MBS1462497 is a recombinant protein targeting ARC5. Also known as Recombinant Arabidopsis thaliana Dynamin-like protein ARC5 (ARC5) , partial. Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of ARC5 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 ARC5. It may not necessarily be applicable to this product.

NCBI GI #	42565028
NCBI GeneID	821509
NCBI Accession #	NP_188606.2
UniProt Primary Accession #	Q84N64
UniProt Secondary Accession #	Q3EB39; Q9LJM3
UniProt Related Accession #	Q84N64
GenBank Nucleotide #	NM_112862.4
NCBI Official Full Name	P-loop containing nucleoside triphosphate hydrolases superfamily protein
NCBI Official Symbol	ARC5

NCBI Official Synonym Symbols	ACCUMULATION AND REPLICATION OF CHLOROPLAST 5; DRP5B; Dynamin related protein 5B
UniProt Protein Name	Dynamin-like protein ARC5
UniProt Synonym Protein Names	Dynamin-related protein 5B; Protein ACCUMULATION AND REPLICATION OF CHLOROPLASTS 5
Protein Family	Dynamin-like protein
UniProt Gene Name	ARC5
UniProt Synonym Gene Names	DRP5B
NCBI Protein Information	P-loop containing nucleoside triphosphate hydrolases superfamily protein
NCBI Summary for ARC5	Encodes a novel chloroplast division protein. Mutants of exhibit defects in chloroplast constriction, have enlarged, dumbbell-shaped chloroplasts. The ARC5 gene product shares similarity with the dynamin family of GTPases, which mediate endocytosis, mitochondrial division, and other organellar fission and fusion events in eukaryotes. Phylogenetic analysis showed that ARC5 is related to a group of dynamin-like proteins unique to plants. A GFP-ARC5 fusion protein localizes to a ring at the chloroplast division site. Chloroplast import and protease protection assays indicate that the ARC5 ring is positioned on the outer surface of the chloroplast. Facilitates separation of the two daughter chloroplasts.
UniProt Comments for ARC5	Probable GTPase component of both plastid and peroxisme division machinery. Required for the last steps of plastid division specifically in mesophyll-cell, when the narrow isthmus breaks, facilitating the separation of the daughter plastids. Necessary for peroxisome activities. Seems to influence stromule (stroma-filled tubular extensions of the plastid envelope membrane) length and frequency.
Research Articles on ARC5	**1.** The roles of DRP3A, DRP3B, and DRP5B in organelle division and plant development, were investigated.
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