Protein DYAD (DYAD) Arabidopsis Thaliana Recombinant Protein

PRODUCT OVERVIEW

Product Name	Protein DYAD (DYAD), Recombinant Protein
Full Product Name	Recombinant Arabidopsis thaliana Protein DYAD (DYAD) , partial
Product Gene Name	DYAD recombinant protein
Product Synonym Gene Name	DYAD
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	66,103 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 Q9FGN8
Species	Arabidopsis thaliana (Mouse-ear cress)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for DYAD recombinant protein	MBS1339897 is a recombinant protein targeting DYAD. Also known as Recombinant Arabidopsis thaliana Protein DYAD (DYAD) , partial. Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of DYAD 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 DYAD. It may not necessarily be applicable to this product.

NCBI GI #	1063737455
NCBI GeneID	835207
NCBI Accession #	NP_001332209.1
UniProt Primary Accession #	Q9FGN8
UniProt Secondary Accession #	Q946Y3
UniProt Related Accession #	Q9FGN8
GenBank Nucleotide #	NM_001344934.1
NCBI Official Full Name	SWITCH1
NCBI Official Symbol	SWI1

NCBI Official Synonym Symbols	DYAD; MFG13.3; MFG13_3; SWITCH1
UniProt Protein Name	Protein DYAD
UniProt Synonym Protein Names	Protein SWITCH 1
Protein Family	Protein
UniProt Gene Name	DYAD
UniProt Synonym Gene Names	SWI1
NCBI Protein Information	SWITCH1
NCBI Summary for DYAD	Encodes novel protein involved in sister chromatid cohesion and meiotic chromosome organization during both male and female meiosis. Gene has two alternate transcripts which produce two similar proteins, one 57 aa shorter than the other.
UniProt Comments for DYAD	Required for fertility. Involved in chromatid cohesion establishment, in chromosome structure during male and female meiosis (e.g. the synapse formation between homologous chromosomes, the recombination, and the cohesion of both chromatid arm and centromere), and in axial element formation. Regulates the switch from mitosis to the reductional meiosis division of megaspores prior to the female gametogenesis (megasporogenesis).
Research Articles on DYAD	**1.** AtRAD51C and SWI may function at distinct stages of meiosis.
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