Mrna-Decapping Enzyme-Like Protein (AT1G08370) Arabidopsis Thaliana Recombinant Protein

PRODUCT OVERVIEW

Product Name	mRNA-decapping enzyme-like protein (At1g08370), Recombinant Protein
Full Product Name	Recombinant Arabidopsis thaliana mRNA-decapping enzyme-like protein (At1g08370)
Product Gene Name	At1g08370 recombinant protein
Product Synonym Gene Name	At1g08370
Sequence	MSQNGKIIPN LDQNSTRLLN LTVLQRIDPY IEEILITAAH VTFYEFNIEL SQWSRKDVEG SLFVVKRSTQ PRFQFIVMNR RNTDNLVENL LGDFEYEVQG PYLLYRNASQ EVNGIWFYNK RECEEVATLF NRILSAYSKV NQKPKASSSK SEFEELEAKP TMAVMDGPLE PSSTARDAPD DPAFVNFFSS TMNLGNTASG SASGPYQSSA IPHQPHQPHQ PTIAPPVAAA APPQIQSPPP LQSSSPLMTL FDNNPEVISS NSNIHTDLVT PSFFGPPRMM AQPHLIPGVS MPTAPPLNPN NASHQQRSYG TPVLQPFPPP TPPPSLAPAP TGPVISRDKV KEALLSLLQE DEFIDKITRT LQNALQQ
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	40,611 Da
Sequence Positions	1-367, 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 Q9SJF3
Species	Arabidopsis thaliana (Mouse-ear cress)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for At1g08370 recombinant protein	MBS1398363 is a recombinant protein targeting At1g08370. Also known as Recombinant Arabidopsis thaliana mRNA-decapping enzyme-like protein (At1g08370). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of At1g08370 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 At1g08370. It may not necessarily be applicable to this product.

NCBI GI #	18390886
NCBI GeneID	837357
NCBI Accession #	NP_563814.1

UniProt Primary Accession #	Q9SJF3
UniProt Secondary Accession #	O64895
UniProt Related Accession #	Q9SJF3
GenBank Nucleotide #	NM_100710.4
NCBI Official Full Name	decapping 1
NCBI Official Symbol	DCP1
NCBI Official Synonym Symbols	ATDCP1; decapping 1
UniProt Protein Name	mRNA-decapping enzyme-like protein
UniProt Synonym Protein Names	DCP1 homolog
Protein Family	mRNA-decapping enzyme-like protein
UniProt Gene Name	At1g08370
NCBI Protein Information	decapping 1
NCBI Summary for At1g08370	Encodes DCP1 involved in mRNA decapping. DCP1 forms a mRNA decapping complex with DCP2 (At5g13570) and VCS (VARICOSE) (At3g13300). However, unlike DCP2, DCP1 itself does not have mRNA decapping activity in vitro. DCP1, DCP2 and VCS colocalize in cytoplasmic loci, which are putative Arabidopsis mRNA processing bodies. Null mutants of DCP1, DCP2, and VCS accumulate capped mRNAs with a reduced degradation rate. These mutants also share a similar lethal phenotype at the seedling cotyledon stage, with disorganized veins, swollen root hairs, and altered epidermal cell morphology. The protein was shown by immunoprecipitation not to interact with DCP2.
UniProt Comments for At1g08370	As a component of the decapping complex, involved in the degradation of mRNAs. Essential for postembryonic development.
Research Articles on At1g08370	**1.** DCP1 and DCP2 respond differently to environmental changes, indicating that P-bodies have diverse DCP1 and DCP2 proportions depending on environmental conditions.
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.
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