Metacaspase-9 (AMC9) Arabidopsis Thaliana Recombinant Protein

PRODUCT OVERVIEW

Product Name	Metacaspase-9 (AMC9), Recombinant Protein
Full Product Name	Recombinant Arabidopsis thaliana Metacaspase-9 (AMC9)
Product Gene Name	AMC9 recombinant protein
Product Synonym Gene Name	AMC9
Sequence	MDQQGMVKKR LAVLVGCNYP NTRNELHGCI NDVLAMKETI LSRFGFKQDD IEVLTDEPES KVKPTGANIK AALRRMVDKA QAGSGDILFF HYSGHGTRIP SVKSAHPFKQ DEAIVPCDFN LITDVDFREL VNQLPKGTSF TMISDSCHSG GLIDKEKEQI GPSSVSSNIS PAIETTNKTI TSRALPFKAV LDHLSSLTGI TTSDIGTHLL ELFGRDAGLK FRLPAMDLMD LLETMTAREK HVDSGILMSG CQADETSADV GVGNGKAYGA FSNAIQRVLN ENEGAMKNKQ LVMMARDVLE RLGFHQHPCL YCSDQNADAT FLSQP
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	35,505 Da
Sequence Positions	1-325, 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 Q9FYE1
Species	Arabidopsis thaliana (Mouse-ear cress)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for AMC9 recombinant protein	MBS1312287 is a recombinant protein targeting AMC9. Also known as Recombinant Arabidopsis thaliana Metacaspase-9 (AMC9). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of AMC9 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 AMC9. It may not necessarily be applicable to this product.

NCBI GI #	15237648
NCBI GeneID	830299
NCBI Accession #	NP_196040.1
UniProt Primary Accession #	Q9FYE1
UniProt Secondary Accession #	Q8LCR8

UniProt Related Accession #	Q9FYE1
GenBank Nucleotide #	NM_120502.3
NCBI Official Full Name	metacaspase 9
NCBI Official Symbol	MC9
NCBI Official Synonym Symbols	AtMC9; AtMCP2f; F21E1.120; F21E1_120; MCP2f; metacaspase 2f; metacaspase 9
UniProt Protein Name	Metacaspase-9
UniProt Synonym Protein Names	Metacaspase-9 subunit p20Metacaspase-9 subunit p10Alternative name(s):Metacaspase 2f; AtMCP2f
Protein Family	Metacaspase
UniProt Gene Name	AMC9
UniProt Synonym Gene Names	MCP2F; AtMC9; AtMCP2f
NCBI Protein Information	metacaspase 9
NCBI Summary for AMC9	Encodes a putative metacaspase. Arabidopsis contains three type I MCP genes (MCP1a-c) and six type II MCP genes (MCP2a#Aeif): AtMCP1a/At5g64240, AtMCP1b/At1g02170, AtMCP1c/At4g25110, AtMCP2a/At1g79310, AtMCP2b/At1g79330, AtMCP2c/At1g79320, AtMCP2d/At1g79340, AtMCP2e/At1g16420, AtMCP2f/At5g04200.
UniProt Comments for AMC9	Cysteine protease that cleaves specifically after arginine or lysine residues. Does not cleave caspase-specific substrates. Required for proteolytic processing of GRI (PubMed:25398910).
Research Articles on AMC9	**1.** The substrate specificity of MC9 was characterized.
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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