Metacaspase-4 (AMC4), Recombinant Protein

CD BioSciences
Plant Protein

Cat *RP01353*

Size *0.02 mg (E-Coli)/ 0.02 mg (Yeast)/ 0.1 mg (E-Coli)/ 0.1 mg (Yeast)/ 0.02 mg (Baculovirus)/ 0.02 mg (Mammalian-Cell)/ 0.1 mg (Baculovirus)/ 1 mg (E-Coli)/ 1 mg (Yeast)/ 0.1 mg (Mammalian-Cell)/ 1 mg (Baculovirus)/ 0.5 mg (Mammalian-Cell)*

Species
Arabidopsis thaliana (Mouse-ear cress)

Full Product Name
Recombinant Arabidopsis thaliana Metacaspase-4 (AMC4)

Product Gene Name
AMC4 recombinant protein

Purity
Greater or equal to 85% purity as determined by SDS-PAGE. (lot specific)

Sequence
MTKKAVLIGI NYPGTKAELR GCVNDVRRMY KCLVERYGFS EENITVLIDT DESSTQPTGK NIRRALADLV ESADSGDVLV VHYSGHGTRL PAETGEDDDT GFDECIVPCD MNLITDDDFR DLVDKVPPGC RMTIISDSCH SGGLIDEAKE QIGESTKKEA EDEDESEESS SRFGFRKFLR SKVEGAIESR GFHIGGNKKD EDEAEEIETK EIELEDGETI HAKDKSLPLQ TLIDILKQQT GNDNIEVGKI RPSLFDAFGD DSSPKVKKFM KVILGKLQAG NGEEGGLMGM LGKLASGFLE GKLNDEDYVK PAMQTHVGSK EEVYAGGSRG SVPLPDSGIL ISGCQTDQTS ADATPAGKPT EAYGAMSNSI QTILEETDGE ISNREMVTRA RKALKKQGFT QQPGLYCHDG YANAPFIC

Sequence Positions
1-418, Full length protein

Format
Lyophilized or liquid (Format to be determined during the manufacturing process)

Host
E Coli or Yeast or Baculovirus or Mammalian Cell

Molecular Weight
45,484 Da

Storage
Store at -20℃. For long-term storage, store at -20℃ or -80℃. Store working aliquots at 4℃ for up to one week. Repeated freezing and thawing is not recommended.

Protein Family
Metacaspase

NCBI Accession
NP_178052.1

NCBI GI
15219345

NCBI GenBank Nucleotide
NM_106582.4

NCBI GeneID
844272

FOR RESEARCH OR FURTHER MANUFACTURING USE ONLY

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https://www.cd-biosciences.com/plant-protein/

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NCBI Official Full Name
metacaspase 4

NCBI Official Symbol
MC4

NCBI Official Synonym Symbols
AtMC4; AtMCP2d; MCP2d; metacaspase 2d; metacaspase 4; YUP8H12R.4; YUP8H12R_4

NCBI Protein Information
metacaspase 4

NCBI Summary
Encodes MCP2d, the predominant and constitutively expressed member of type II metacaspases (MCPs). MCP2d plays a positive regulatory role in biotic and abiotic stress-induced programmed cell death (PCD). 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 Gene Name
AMC4

UniProt Synonym Gene Names
AMC7; MCP2D; AtMC4; AtMCP2d

UniProt Protein Name
Metacaspase-4

UniProt Synonym Protein Names
Metacaspase 2d; AtMCP2d

UniProt Primary Accession
O64517

UniProt Secondary Accession
Q7XBI1

UniProt Related Accession
O64517

UniProt Comments
Cysteine protease that cleaves specifically after arginine or lysine residues. Does not cleave caspase-specific substrates. Plays a positive regulatory role in biotic and abiotic stress-induced programmed cell death.

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