Methylthioalkylmalate synthase 1, chloroplastic (MAM1), Recombinant Protein



Cat RP01043

Size 0.02 mg (E-Coli)/ 0.02 mg (Yeast)/ 0.1 mg (E-Coli)/ 0.1 mg

(Veast)/ 0.02 mg (Raculovirus)/ 0.02 mg (Mammalian-Cell)/ 0.1

Species (Yeast)/ 1 mg (E-Coli)/ 0.1 mg (Mammalian-Cell)/ 1 mg (Yeast)/ 1 mg (Baculovirus)/ 0.5 mg (Mammalian-Cell)
Arabidopsis thaliana (Mouse-ear cress)

Full Product Name

Recombinant Arabidopsis thaliana Methylthioalkylmalate synthase 1, chloroplastic (MAM1)

Product Gene Name

MAM1 recombinant protein

Product Synonym Gene Name

MAM1

Purity

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

Sequence

CSSVSKNAAT SSTDLKPVVE RWPEYIPNKL PDGNYVRVFD TTLRDGEQSP GGSLTPPQKL EIARQLAKLR VDIMEVGFPG SSEEELETIK TIAKTVGNEV DEETGYVPVI CAIARCKHRD IEATWEALKY AKRPRILVFT STSDIHMKYK LKKTQEEVIE MAVSSIRFAK SLGFNDIQFG CEDGGRSDKD FLCKILGEAI KAGVTVVTIG DTVGINMPHE YGELVTYLKA NTPGIDDVVV AVHCHNDLGL ATANSIAGIR AGARQVEVTI NGIGERSGNA SLEEVVMALK CRGAYVINGV YTKIDTRQIM ATSKMVQEYT GLYVQAHKPI VGANCFVHES GIHQDGILKN RSTYEILSPE DIGIVKSQNS GLVLGKLSGR HAVKDRLKEL GYELDDEKLN AVFSLFRDLT KNKKRITDAD LKALVTSSDE ISLEKLNGAN GLKSNGYIPV PQVSSNV

Sequence Positions

50-506, 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

55,125 Da

Storage

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

Protein Family

Monopolin complex

NCBI Accession

NP 197692.1

NCBI GI#

15237194

FOR RESEARCH OR FURTHER MANUFACTURING USE ONLY

Address: SUITE 209, 17 Ramsey Road, Shirley, NY 11967

Tel: 1-631-637-0420

E-mail: info@cd-biosci.com
https://www.cd-biosciences.com/plant-protein/

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NCBI GenBank Nucleotide # Mg (Peast)/ 1 mg (E-Coli)/ 0.1 mg (Mammalian-Cell)/ 1 NM 122207.3

NCBI GenelD

832365

NCBI Official Full Name

methylthioalkylmalate synthase 1

NCBI Official Symbol

MAM1

NCBI Official Synonym Symbols

2-ISOPROPYLMALATE SYNTHASE; 2-ISOPROPYLMALATE SYNTHASE 3; IMS3; METHYLTHIOALKYLMALATE SYNTHASE; methylthioalkylmalate synthase 1; T2007.3; T2007.3

NCBI Protein Information

methylthioalkylmalate synthase 1

NCBI Summary

Encodes a methylthioalkylmalate synthase, catalyzes the condensation reactions of the first two rounds of methionine chain elongation in the biosynthesis of methionine-derived glucosinolates.

UniProt Gene Name

MAM1

UniProt Synonym Gene Names

IMS3; IPMS AT2; MAM-L; MAML

UniProt Protein Name

Methylthioalkylmalate synthase 1, chloroplastic

UniProt Synonym Protein Names

2-isopropylmalate synthase 3

UniProt Primary Accession

Q9FG67

UniProt Secondary Accession #

Q70YX4; Q70YX9

UniProt Related Accession #

Q9FG67

UniProt Comments

Determines the side chain length of aliphatic glucosinolate structures. Catalyzes exclusively the condensation reactions of both the first and second methionine carbon chain elongation.

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