

1-aminocyclopropane-1-carboxylate synthase 1 (ACS1), Recombinant Protein

Cat RP20215

Size 0.05 mg (E-Coli)/ 0.2 mg (E-Coli)/ 0.5 mg (E-Coli)/ 0.05 mg (Yeast)/ 0.05 mg (Baculovirus)/ 0.2 mg (Yeast)/ 1 mg (E-Coli)/ 0.5 mg (Yeast)/ 0.1 mg (Baculovirus)/ 0.05 mg (Mammalian-Cell)/ 1 mg (Yeast)/ 0.5 mg (Baculovirus)/ 0.1 mg (Mammalian-Cell)/ 1 mg (B

Species Cell)/ 1 mg (B

Prunus armeniaca (Apricot)

Full Product Name

Recombinant Prunus mume 1-aminocyclopropane-1-carboxylate synthase 1 (ACS1)

Product Synonym Names

1-aminocyclopropane-1-carboxylate synthase 1; ACC synthase 1; EC=4.4.1.14; S-adenosyl-L-methionine methylthioadenosine-lyase

Product Gene Name

ACS1 recombinant protein

Purity

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

Sequence

MGSSSATANR FLLSKIATSE GHGENSPYFD GWKAYDRNPF HPTKNPEGVI QMGLAENQLS FDSIEDWIKK
NPKASICTPE GVVEEFKNVAI FQDYHGFPEF RKAVAMFMSK ARGGRVTFDP NRVVMSSGGAT GANELVMFCL
ADPGDAFLVP SPYYPAFFRD LGWRTGVQIV PVDCDSSNNF KITKEALEAA YEKAQKNNIN VKGLIITNPS
NPLGTTLDRN TLESLVEFIN QKNIHLVCDE IYAATVFSSP TFTCISEVIQ NMNCNPNLIH IVYSLSKDMG
LPGLRVGIVY SYNDVNVIG RKMSSFGLVS SQTQHMLPSM LLDEEFVARF LETSPKRLAK RHGVFTKGLE
EVGINCLKSN AGLFCWMDLR RLLEDQTFDG EMVLWRVIVN EVGPNVSPGS SFKCVEPGWF RVCFANMDDE
TLEVALKRIR TFVRQGKKAQ DQVVQVKSPK RWKSNLRLSF SSSSTRFDQ ESVNVLSPHM MSPHSPLVRA
KT

Sequence Positions

1-492aa; 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

55,066 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

1-aminocyclopropane-1-carboxylate synthase

NCBI Accession

Q9MB95.1

FOR RESEARCH OR FURTHER MANUFACTURING USE ONLY

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NCBI GI#

17366971

NCBI GeneID

103332068

NCBI Official Full Name

1-aminocyclopropane-1-carboxylate synthase 1

NCBI Official Symbol

LOC103332068

NCBI Official Synonym Symbols

ACS1; PmACS; PM-ACS1

NCBI Protein Information

1-aminocyclopropane-1-carboxylate synthase 1; ACC synthase 1

UniProt Gene Name

ACS1

UniProt Synonym Gene Names

ACC synthase 1

UniProt Protein Name

1-aminocyclopropane-1-carboxylate synthase 1

UniProt Synonym Protein Names

S-adenosyl-L-methionine methylthioadenosine-lyase

UniProt Entry Name

1A11_PRUMU

UniProt Primary Accession #

Q9MB95

UniProt Related Accession #

Q9MB95

UniProt Comments

Catalyzes the formation of 1-aminocyclopropane-1-carboxylate, a direct precursor of ethylene in higher plants.

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