

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

Cat *RP18479*

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^{Cell}

Glycine max (Soybean) (*Glycine hispida*)

Full Product Name

Recombinant Glycine max 1-aminocyclopropane-1-carboxylate synthase (ACS1)

Product Gene Name

ACS1 recombinant protein

Purity

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

Sequence

MGLMDVDQTQ LLSKMVIGDG HGEASPYFDG WKAYDENPFH PKENPNGVIQ MGLAENQLTS DLVEDWILNN
PEASICTPEG INDFRAIANF QDYHGLPEFR NAVAKFMGRT RGNRVTFDPD RIVMSGGATG AHEVTTFCCLA
DPGDAFLVPI PYYPGFDRDL RWRTGIKLVP VMCDSSNNFK LTKQALEDAY EKAKEDNIRV KGLLITNPSN
PLGTVMDRNT LRTVMSFINE KRIHLVSDEI YSATVFSHPS FISIAEILEE DTDIECDRNL VHIVYSLSKD
MGFPGFRVGI IYSYNDAVVH CARKMSSFGL VSTQTQYLLA SMLNDDEFVE SFLVESAKRL AQRHRVFTGG
LAKVGICLQ SNAGLFVWMD LRQLLKKPTL DSEMELWRVI IDEVKINVSP GSSFHCTEPG WFRVCYANMD
DMAVQIALQR IRNFVLQKE IMVPNKKHCW HSNLRLSLKT RRFDDIMMSP HSPIQSPLV KATI

Sequence Positions

1-484, 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

54,731 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

NP_001236858.1

NCBI GI

351726068

NCBI GenBank Nucleotide

FOR RESEARCH OR FURTHER MANUFACTURING USE ONLY

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NM_001240920.2

NCBI GeneID

547976

NCBI Official Full Name

1-aminocyclopropane-1-carboxylate synthase

NCBI Official Symbol

ACS1

NCBI Official Synonym Symbols

ACS

NCBI Protein Information

1-aminocyclopropane-1-carboxylate synthase

UniProt Gene Name

ACS1

UniProt Synonym Gene Names

ACC synthase

UniProt Protein Name

1-aminocyclopropane-1-carboxylate synthase

UniProt Synonym Protein Names

S-adenosyl-L-methionine methylthioadenosine-lyase

UniProt Primary Accession

P31531

UniProt Related Accession

P31531

UniProt Comments

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

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