1-Aminocyclopropane-1-Carboxylate Synthase 1 (ACC1) Oryza Sativa Subsp. Japonica Recombinant Protein

PRODUCT OVERVIEW

Product Name	1-aminocyclopropane-1-carboxylate synthase 1 (ACC1), Recombinant Protein
Full Product Name	Recombinant Oryza sativa subsp. japonica 1-aminocyclopropane-1-carboxylate synthase 1 (ACC1)
Product Gene Name	ACC1 recombinant protein
Product Synonym Gene Name	ACC1
Sequence	MVSQVVAEEK PQLLSKKAGC NSHGQDSSYF LGWQEYEKNP FDPVSNPSGI IQMGLAENQL SFDLLEEWLE KNPHALGLRR EGGGASVFRE LALFQDYHGL PAFKNALARF MSEQRGYKVV FDPSNIVLTA GATSANEALM FCLADHGDAF LIPTPYYPGF DRDLKWRTGA EIVPVHCASA NGFRVTRPAL DDAYRRAQKR RLRVKGVLIT NPSNPLGTAS PRADLETIVD FVAAKGIHLI SDEIYAGTAF AEPPAGFVSA LEVVAGRDGG GADVSDRVHV VYSLSKDLGL PGFRVGAIYS ANAAVVSAAT KMSSFGLVSS QTQYLLAALL GDRDFTRSYV AENKRRIKER HDQLVDGLRE IGIGCLPSNA GLFCWVDMSH LMRSRSFAGE MELWKKVVFE VGLNISPGSS CHCREPGWFR VCFANMSAKT LDVAMQRLRS FVDSATGGGD NAALRRAAVP VRSVSCPLAI KWALRLTPSI ADRKAER
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	53,139 Da
Sequence Positions	1-487, 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 Q10DK7
Species	Oryza sativa subsp. japonica (Rice)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for ACC1 recombinant protein	MBS1329658 is a recombinant protein targeting ACC1. Also known as Recombinant Oryza sativa subsp. japonica 1-aminocyclopropane-1-carboxylate synthase 1 (ACC1). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of ACC1 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 ACC1. It may not necessarily be applicable to this product.

NCBI GI #	1002250101
NCBI GeneID	4333976
NCBI Accession #	XP_015629245.1

UniProt Primary Accession #	Q10DK7
UniProt Secondary Accession #	Q07215; Q6ATI2; B7EIR0
UniProt Related Accession #	Q10DK7
GenBank Nucleotide #	XM_015773759.1
NCBI Official Full Name	1-aminocyclopropane-1-carboxylate synthase 1
NCBI Official Symbol	LOC4333976
NCBI Official Synonym Symbols	ACC1
UniProt Protein Name	1-aminocyclopropane-1-carboxylate synthase 1
UniProt Synonym Protein Names	S-adenosyl-L-methionine methylthioadenosine-lyase 1
Protein Family	1-aminocyclopropane-1-carboxylate synthase
UniProt Gene Name	ACC1
UniProt Synonym Gene Names	ACC synthase 1
NCBI Protein Information	1-aminocyclopropane-1-carboxylate synthase 1
UniProt Comments for ACC1	Catalyzes the formation of 1-aminocyclopropane-1-carboxylate, a direct precursor of ethylene in higher plants.
Research Articles on ACC1	**1.** The expression of ACS1, CUT1L, and RCN1/OsABCG5 was induced predominantly in the outer part of roots under stagnant conditions.
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