Acetyl-Coenzyme A Synthetase (acsA) Recombinant Protein

PRODUCT OVERVIEW

Product Name	Acetyl-coenzyme A synthetase (acsA), Recombinant Protein
Full Product Name	Recombinant Acetyl-coenzyme A synthetase (acsA)
Product Gene Name	acsA recombinant protein
Product Synonym Names	Acetyl-coenzyme A synthetase; EC=6.2.1.1; Acetate--CoA ligase; Acyl-activating enzyme
Sequence	TSGKVSIKWF EDGVLNVTES CLDRHLATRG DQVAIIWEGD DPNADSKVTY RELHARVCQL ANAMRGMGVQ KGDRVCIYLP MIEEAAVAML ACARIGAVHS IVFGGFSPDS LSSRIQDSDC VLLITADEGR RGGRKVPLKV NADEALKTCP SIRHVIVAKN TGGNVAMQEG RDHWWADACD NQPKTSTPEP MGAEDPLFIL YTSGSTGKPK GVLHTTGGYL VWASFTHQNV FDYRDGEIYW CTADVGWVTG HTYIVYGPLA NGATTLMFEG VPNYPTVSRF WEVIDKHQVN IFYTAPTAIR ALMRDGEAPV KKTSRKSLRI LGSVGEPINP EAWLWYY
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	37,143 Da
Sequence Positions	1-337aa; 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 Q93LL2
Species	Nostoc linckia
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for acsA recombinant protein	MBS1463575 is a recombinant protein targeting acsA. Also known as Recombinant Acetyl-coenzyme A synthetase (acsA). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of acsA 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 acsA. It may not necessarily be applicable to this product.

NCBI GI #	37077676
NCBI Accession #	Q93LL2.1
UniProt Primary Accession #	Q93LL2
NCBI Official Full Name	Acetyl-coenzyme A synthetase
UniProt Protein Name	Acetyl-coenzyme A synthetase

UniProt Synonym Protein Names	Acetate--CoA ligase; Acyl-activating enzyme
Protein Family	Acetyl-coenzyme A synthetase
UniProt Gene Name	acsA
UniProt Synonym Gene Names	AcCoA synthetase; Acs
UniProt Entry Name	ACSA_NOSLI
UniProt Comments for acsA	Catalyzes the conversion of acetate into acetyl-CoA (AcCoA), an essential intermediate at the junction of anabolic and catabolic pathways. AcsA undergoes a two-step reaction. In the first half reaction, AcsA combines acetate with ATP to form acetyl-adenylate (AcAMP) intermediate. In the second half reaction, it can then transfer the acetyl group from AcAMP to the sulfhydryl group of CoA, forming the product AcCoA ().
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