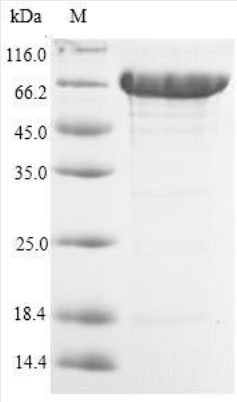
Acetyl-Coenzyme A Synthetase 2-Like, Mitochondrial (ACSS1) Human Recombinant Protein

PRODUCT OVERVIEW

Product Name	Acetyl-coenzyme A synthetase 2-like, mitochondrial (ACSS1), Recombinant Protein
Full Product Name	Recombinant Human Acetyl-coenzyme A synthetase 2-like, mitochondrial (ACSS1)
Product Gene Name	ACSS1 recombinant protein
Product Synonym Gene Name	ACSS1; ACAS2L; KIAA1846
Product Synonym Names	Acetyl-coenzyme A synthetase 2-like, mitochondrial; EC=6.2.1.1; Acetate--CoA ligase 2; Acetyl-CoA synthetase 2; AceCS2; Acyl-CoA synthetase short-chain family member 1
Sequence	ASGPSGSAPA VAAAAAQPGS YPALSAQAAR EPAAFWGPLA RDTLVWDTPY HTVWDCDFST GKIGWFLGGQ LNVSVNCLDQ HVRKSPESVA LIWERDEPGT EVRITYRELL ETTCRLANTL KRHGVHRGDR VAIYMPVSPL AVAAMLACAR IGAVHTVIFA GFSAESLAGR INDAKCKVVI TFNQGLRGGR VVELKKIVDE AVKHCPTVQH VLVAHRTDNK VHMGDLDVPL EQEMAKEDPV CAPESMGSED MLFMLYTSGS TGMPKGIVHT QAGYLLYAAL THKLVFDHQP GDIFGCVADI GWITGHSYVV YGPLCNGATS VLFESTPVYP NAGRYWETVE RLKINQFYGA PTAVRLLLKY GDAWVKKYDR SSLRTLGSVG EPINCEAWEW LHRVVGDSRC TLVDTWWQTE TGGICIAPRP SEEGAEILPA MAMRPFFGIV PVLMDEKGSV VEGSNVSGAL CISQAWPGMA RTIYGDHQRF VDAYFKAYPG YYFTGDGAYR TEGGYYQITG RMDDVINISG HRLGTAEIED AIADHPAVPE SAVIGYPHDI KGEAAFAFIV VKDSAGDSDV VVQELKSMVA TKIAKYAVPD EILVVKRLPK TRSGKVMRRL LRKIITSEAQ ELGDTTTLED PSIIAEILSV YQKCKDKQAA AK
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	73.6 kDa
Sequence Positions	38-689aa; Full Length of Mature 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.
OMIM	614355
3D Structure	ModBase 3D Structure for Q9NUB1
Species	Homo sapiens (Human)
Production Note	**Special Offer:** The E Coli, Yeast host-expressed protein is manufactured from a stock plasmid containing the protein gene. E Coli, Yeasthost-expressed protein is stocked in different unit sizes ranging from as small as 10 ug to as large as 1 mg. Bulk inventory is also available. The E Coli, Yeast host-expressed protein has been ordered over and over again by researchers and has stood the test of time as both a robust protein and important target for the research community. It is part of our new program to make our most popular protein targets and corresponding hosts available in expanded unit sizes and with a quick processing time. Select E Coli, Yeast host-expressed protein for the fastest delivery among all hosts. Please contact our **technical support team** **or email to** **support@mybiosource.com** for more details.
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.

Related Product Information for ACSS1 recombinant protein	Important for maintaining normal body temperature during fasting and for energy homeostasis. Essential for energy expenditure under ketogenic conditions. Converts acetate to acetyl-CoA so that it can be used for oxidation through the tricarboxylic cycle to produce ATP and CO2.
Other Notes	Small volumes of ACSS1 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.
Searchable Terms for ACSS1 purchase	MBS1311970 is a recombinant protein targeting ACSS1. Also known as Recombinant Human Acetyl-coenzyme A synthetase 2-like, mitochondrial (ACSS1). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.



SDS-Page of ACSS1 recombinant protein

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for ACSS1. It may not necessarily be applicable to this product.

NCBI GI #	358248205
NCBI GeneID	84532
NCBI Accession #	NP_001239604.1
UniProt Primary Accession #	Q9NUB1
UniProt Secondary Accession #	Q5TF42; Q8IV99; Q8N234; Q96JI1; Q96JX6; Q9NU28; B3KXL2; B4DJZ3; D3DW48; F5H6F4; F8W7Y1
UniProt Related Accession #	Q9NUB1
GenBank Nucleotide #	NM_001252675.1
NCBI Official Full Name	acetyl-coenzyme A synthetase 2-like, mitochondrial isoform 2
NCBI Official Synonym Full Names	acyl-CoA synthetase short-chain family member 1
NCBI Official Symbol	ACSS1
NCBI Official Synonym Symbols	ACAS2L; ACECS1; AceCS2L
UniProt Protein Name	Acetyl-coenzyme A synthetase 2-like, mitochondrial
UniProt Synonym Protein Names	Acetate--CoA ligase 2; Acetyl-CoA synthetase 2; AceCS2; Acyl-CoA synthetase short-chain family member 1
Protein Family	Acetyl-coenzyme A synthetase
UniProt Gene Name	ACSS1
UniProt Synonym Gene Names	ACAS2L; KIAA1846; AceCS2
UniProt Entry Name	ACS2L_HUMAN
NCBI Protein Information	acetyl-coenzyme A synthetase 2-like, mitochondrial; acetate--CoA ligase 2

NCBI Summary for ACSS1	This gene encodes a mitochondrial acetyl-CoA synthetase enzyme. A similar protein in mice plays an important role in the tricarboxylic acid cycle by catalyzing the conversion of acetate to acetyl CoA. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene. [provided by RefSeq, Nov 2011]
UniProt Comments for ACSS1	ACSS1: Important for maintaining normal body temperature during fasting and for energy homeostasis. Essential for energy expenditure under ketogenic conditions. Converts acetate to acetyl-CoA so that it can be used for oxidation through the tricarboxylic cycle to produce ATP and CO(2). Belongs to the ATP-dependent AMP-binding enzyme family. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Ligase; Mitochondrial; Carbohydrate Metabolism - pyruvate; EC 6.2.1.1; Carbohydrate Metabolism - glycolysis and gluconeogenesis; Carbohydrate Metabolism - propanoate Chromosomal Location of Human Ortholog: 20p11.21 Cellular Component: mitochondrial matrix Molecular Function: protein binding; acetate-CoA ligase activity; ATP binding; AMP binding Biological Process: acetyl-CoA biosynthetic process from acetate; xenobiotic metabolic process; acetyl-CoA biosynthetic process; propionate biosynthetic process; ethanol oxidation; acetate biosynthetic process
Research Articles on ACSS1	**1.** Clinical trial of gene-disease association and gene-environment interaction. (HuGE Navigator)
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
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