

# Acetyl-coenzyme A synthetase 2-like, mitochondrial (ACSS1) Recombinant Protein | ACSS1 recombinant protein

Recombinant Human Acetyl-coenzyme A synthetase 2-like, mitochondrial (ACSS1)

|                              |                                                                 |
|------------------------------|-----------------------------------------------------------------|
| CATALOG #<br><b>AAA18741</b> | HOST<br><b>E Coli or Yeast or Baculovirus or Mammalian Cell</b> |
|------------------------------|-----------------------------------------------------------------|

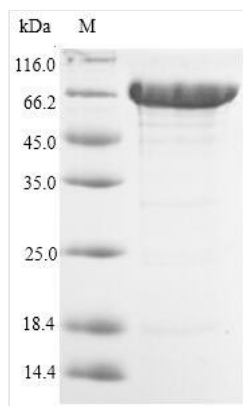
## PRODUCT SYNONYMS

Acetyl-coenzyme A synthetase 2-like; mitochondrial (ACSS1); Recombinant Human 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; ACSS1 recombinant protein

## PRODUCT SPECIFICATIONS

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                    | E Coli or Yeast or Baculovirus or Mammalian Cell                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Purity/Purification     | Greater or equal to 85% purity as determined by SDS-PAGE.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Form/Format             | Lyophilized or liquid (Format to be determined during the manufacturing process)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Sequence Positions      | 38-689aa; Full Length of Mature Protein                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Sequence                | ASGPSGSAPA VAAAAAQPGS YPALSAQAAR EPAAFWGPLA RDTLVWDTPY HTVWDCDFST GKIGWFLGGQ LNVSVNCLDQ HVRKSPESVA LIWERDEPGT EVRITYRELL ETTCLRLANTL KRHGVHRGDR VAIYMPVSPL AVAAMLACAR IGAVHTVIFA GFSAESLAGR INDAKCKVVI TFNQGLRGGR VVELKKIVDE AVKHCPTVQH VLVAHRTDNK VHMGDLDVPL EQEMAKEDPV CAPESMGSED MLFMLYTS GS TGMPKGIVHT QAGYLLYAAL THKL VFDHQP GDIFGCVADI GWITGHSYVV YGPLCNGATS VLFESTPVYP NAGRYWETVE RLKINQFYGA PTAVRLLLY GDAWVKKYDR SSLRTLGSVG EPINCEAW EW LHRVVGDSRC TLVDTWWQTE TGGICIAPRP SEEGAEILPA MAMRPFFGIV PVLMDKGSV VEGSNVSGAL CISQAWPGMA RTIYGDHQR F VDAYFKAYPG YYFTGDGAYR TEGGYQITG RMDDVINISG HRLGTAEIED AIADHPAVPE SAVIGYPHDI KGEAAFAFIV VKDSAGDSDV VVQELKSMVA TKIAKYAVPD EILVVKRLPK TRSGKVMRRL LRKIITSEAQ ELGDTTTLTD PSIIAEILSV YQKCKDKQAA AK |
| Species                 | Homo sapiens (Human)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| 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.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |

## IMAGES



SDS-PAGE

ADDITIONAL INFORMATION

|                                                           |                                                                                                                                                                                                                                                                                       |
|-----------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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. |
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NCBI AND UNIPROT INFORMATION

|                                  |                                                                                                |
|----------------------------------|------------------------------------------------------------------------------------------------|
| NCBI GI #                        | 358248205                                                                                      |
| NCBI GeneID                      | 84532                                                                                          |
| NCBI Accession #                 | NP_001239604.1                                                                                 |
| NCBI GenBank Nucleotide #        | NM_001252675.1                                                                                 |
| UniProt Accession #              | Q9NUB1; Q5TF42; Q8IV99; Q8N234; Q96JI1; Q96JX6; Q9NU28; B3KXL2; B4DJZ3; D3DW48; F5H6F4; F8W7Y1 |
| Molecular Weight                 | 73.6 kDa                                                                                       |
| 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                                                                        |
| NCBI Protein Information         | acetyl-coenzyme A synthetase 2-like, mitochondrial; acetate--CoA ligase 2                      |
| UniProt Protein Name             | Acetyl-coenzyme A synthetase 2-like, mitochondrial                                             |
| UniProt Gene Name                | ACSS1                                                                                          |
| UniProt Synonym Gene Names       | ACAS2L; KIAA1846; AceCS2                                                                       |
| UniProt Entry Name               | ACS2L_HUMAN                                                                                    |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.