

Recombinant Full Length Human ACSS2 Protein, GST-tagged

Cat. No. ACSS2-814HF Lot. No. (See product label)

SPECIFICATION

Product Overview	Human ACSS2 full-length ORF (AAH98422.1, 1 a.a. - 606 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	606 amino acids
Description	This gene encodes a cytosolic enzyme that catalyzes the activation of acetate for use in lipid synthesis and energy generation. The protein acts as a monomer and produces acetyl-CoA from acetate in a reaction that requires ATP. Expression of this gene is regulated by sterol regulatory element-binding proteins, transcription factors that activate genes required for the synthesis of cholesterol and unsaturated fatty acids. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jul 2009]
Molecular Mass	94 kDa
AA Sequence	MKGATTNICY NVLDRNVHEK KLGDKVAFYW EGNPGETTQ ITYHQLLVQV CQFSNVLRKQ GIQKGDRVAI YMPMPELVV AMLACARIGA LHSIVFAGFS SESLCERILD SSCSLITTD AFYRGEKLVN LKELADEALQ KCQEKGFPVR CCIVVKHLGR AELGMGDSTS QSPPIKRSCP DVQISWNQGI DLWWHELMQE AGDECEPEWC DAEDPLFILY TSGSTGKPKG VVHTVGGYML YVATTFKYVF DFHAEDVFWC TADIGWITGH SYVTYGPLAN GATSVLFEGI PTYPDVNRLW

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SIVDKYKVTK FYTAPTAIRL LMKFGDEPVT KHSRASLQVL GTVGEPINPE
 AWLWYHRVVG AQRCPVDTF WQTETGGHML TPLPGATPMK PGSATFPFFG
 VAPAILNESG EELEGEAEGY LVFKQPWPGI MRTVYGNHER FETTYFKKFP
 GYYVTGDGCQ RDQDGYWIT GRIDDMLNVS GHLLSTAEVE SALVEHEAVA
 EAAVVGHPHP VKGECLYCFV TLCDGHTFSP KLTEELKKQI REKIGPIATP
 DIYQNAPGLP KTRSGKIMRR VLRKIAQNDH DLGDMSTVAD PSVISHLFSH RCLTIQ

Applications
 Enzyme-linked Immunoabsorbent Assay
 Western Blot (Recombinant protein)
 Antibody Production
 Protein Array

Storage Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

Storage Buffer 50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

GENE INFORMATION

Gene Name [ACSS2 acyl-CoA synthetase short-chain family member 2 \[Homo sapiens \]](#)

Official Symbol [ACSS2](#)

Synonyms ACSS2; acyl-CoA synthetase short-chain family member 2; ACAS2, acetyl Coenzyme A synthetase 2 (ADP forming); acetyl-coenzyme A synthetase, cytoplasmic; AceCS; ACS; ACSA; dJ1161H23.1; acetate thiokinase; acetate-CoA ligase; acyl-activating enzyme; cytoplasmic acetyl-coenzyme A synthetase; acetyl-Coenzyme A synthetase 2 (ADP forming); ACAS2; ACECS; DKFZp762G026

Gene ID [55902](#)

mRNA Refseq [NM_001076552](#)

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Protein Refseq NP_001070020

MIM 605832

UniProt ID Q9NR19

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