

Recombinant Human ACSS2 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. ACSS2-4280H Lot. No. (See product label)

SPECIFICATION

Product Overview

ACSS2 MS Standard C13 and N15-labeled recombinant protein (NP_061147) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.

Species

Human

Source

HEK293

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.

Molecular Mass

78.6 kDa

AA Sequence

MGLPEERVRSRSGSGSRGQEEAGAGGRARSWSPPPEVSRSAHVPSLQRYRELHRRS
VEEPREFWGDIAKEFYWKTPCPGPFRLRYNFDVTGKIFIEWMKGATTNICYNVLDNRN
VHEKCLGDKVAFYWEGNEPGETTQITYHQLLVQVCQFSNVLKQGIQKGRVAIYM
PMIPELVVAMLACARIGALHSIVFAGFSSSELICERILDSSCSLLITTDIFYRGEKLVNLK
ELADEALQKCQEKGFVPRCCIVVKHLGRAELGMGDSTSQSPPIKRSCPDVQISWNQ
GIDLWVHELMQEAGDECEPEWCDAEDPLFILTSGSTGKPKGVVHTVGGYMLYVA
TTFKYVDFHAEDVFWCTADIGWITGHSYVTYGPLANGATSVLFEGIPTYPDVNRLW

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

SIVDKYKVTKFYTAPTAIRLLMKFGDEPVTKHSRASLQVLGTVGEPINPEAWLWYHR
 VVGAQRCPIVDTFWQTETGGHMLTPLPGATPMKPGSATFFPGVAPAILNESGEEL
 EGEAEGYLVFKQPWPGIMRTVYGNHERFETTYFKKFPGYVVTGDGCQRDQDGY
 WITGRIDDMLNVSGHLLSTAEVESALVEHEAVAEAAVVGHPHPVKGECLYCFFTLCD
 GHTFSPKLTEELKKQIREKIGPIATPDYIQNAPGLPKTRSGKIMRRVLRKIAQNDHDLG
 DMSTVADPSVISHLFSHRCLTIQTRTRPLEQKLISEEDLAANDILDYKDDDDKV

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

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

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](#)

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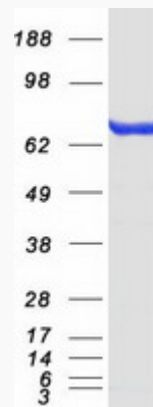
mRNA Refseq [NM_018677](#)

Protein Refseq [NP_061147](#)

MIM [605832](#)

UniProt ID [Q9NR19](#)

SDS-PAGE



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