

Recombinant Full Length Human ACSS2 Protein, C-Flag-tagged

Cat. No. ACSS2-84HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human ACSS2 Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
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.
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	78.4 kDa
AA Sequence	MGLPEERVRSRSGSGSRGQEEAGAGGRARSWSPPPEVSRSAHVPSLQRYRELHRRS VEEPREFWGDIAKEFY WKTPCPGPFLRYNFDVTKGKIFIEWMKGATTNICYNVLDL NVHEKKLGDKVAFYWEGNEPGETTQITYHQ LLVQVCQFSNVLRKQGIQKGDRVAIY MPMIPELVVAMLACARIGALHSIVFAGFSSESLCERILDSSCSL LITDAFYRGEKLVN LKELADEALQKCQEKGFVPRCCIVVKHLGRAELGMGDSTSQSPPIKRSCPDVQIS W NQGIDLWWHELMQEAGDECEPEWCDAEDPLFILYTSGSTGKPKGVTHTVGGYMLY

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VATTFKYVDFHAE DVFWCTADIGWITGHSYVTYGPLANGATSVLFEGIPTYPDVNR
 LWSIVDKYKVTKFYTAPTAIRLLMKFG DEPVTKHSRASLQVLGTVGEPINPEAWLWY
 HRVGAQRCPIVDTFWQTETGGHMLTPLGATPMKPGSAT FPFFGVAPAILNESGE
 ELEGEAEGYLVKQPWPGIMRTVYGNHERFETTYFKKFPGYVTDGDCQRDQDG
 YYWITGRIDDMLNVSGHLLSTAEVESALVEHEAVAEAAVVGHPHPVKGECLYCFFTL
 CDGHTFSPKLTEE LKKQIREKIGPIATPDYIQNAPGLPKTRSGKIMRRVLRKIAQNDH
 DLGDMSTVADPSVISHLFSHRCLTI
 QTRTRPLEQKLISEEDLAANDILDYKDDDDKV

Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Protein Pathways	Glycolysis / Gluconeogenesis, Metabolic pathways, Propanoate metabolism, Pyruvate metabolism
Full Length	Full L.

GENE INFORMATION

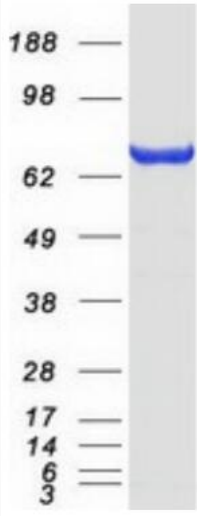
Gene Name	ACSS2 acyl-CoA synthetase short chain family member 2 [Homo sapiens (human)]
Official Symbol	ACSS2

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Synonyms	ACS; ACSA; ACAS2; ACECS; AceCS1; dJ1161H23.1
Gene ID	55902
mRNA Refseq	NM_018677.4
Protein Refseq	NP_061147.1
MIM	605832
UniProt ID	Q9NR19



Coomassie blue staining of purified ACSS2 protein.