

Recombinant Human ACSS1 protein, His-tagged

Cat. No. ACSS1-9327H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human ACSS1 protein (38-689aa, full length of mature protein) was fused to His-tag at N-terminus and expressed in E.coli.
Species	Human
Source	E.coli
ProteinLength	652
Description	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.
Form	Liquid or Lyophilized powder. If the delivery form is liquid, the default storage buffer is Tris/PBS-based buffer, 5%-50% glycerol; If the delivery form is lyophilized powder, the buffer before lyophilization is Tris/PBS-based buffer, 6% Trehalose, pH 8.0.
Molecular Mass	75.1 kDa
AA Sequence	ASGPSGSAPAVAAAAAQPGSYPALSAQAAREPAAFWGPLARDTLVWDTPYHTVWD CDFSTGKIGWFLGGQLNVSVNCLDQHVRKSPESVALIWERDEPGTEVRITYRELLET TCRLANTLKRHGVRGDRVAIYMPVSPLAVAAMLACARIGAVHTVIFAGFSAESLAG RINDAKCKVVITFNQGLRGGRVVELKKIVDEAVKHCPTVQHVLVAHRTDNKVHMGDL DVPLEQEMAKEDPVCAPE\$MGS\$EDMLFMLYTSGSTGMPKGIVHTQAGYLLYAALTH

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KLVFDHQP GDIFGCVADIGWITGHSYVVYGPLCNGATSVLFESTPVYPNAGRYWET
 VERLKINQFYGAPTAVRLLLKYGDAWVKKYDRSSLRTLGSVGEPINCEAWEWLHRV
 VGDSRCTLVDTWWQTETGGICIAPRPSEEGAEILPAMAMRPFFGIVPVLMDKEGGSV
 VEGSNVSGALCISQAWPGMARTIYGDHQRFDAYFKAYPGYYFTGDGAYRTEGGY
 YQITGRMDDVINISGHR LGTAEIEDAIADHPAVPESAVIGYPHDIKGEAAFAFIVVKDS
 AGDSDVVVQELKSMVATKIAKYAVPDEILVVKRLPKTRSGKVMRLLLRKIITSEAQEL
 GDTTLEDPSIIAEILSVYQKCKDKQAAAK

Purity Greater than 90% as determined by SDS-PAGE.

Stability The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20/-80 centigrade. The shelf life of lyophilized form is 12 months at -20/-80 centigrade.

Storage Store at -20 centigrade upon receipt, aliquoting is necessary for mutiple use. Avoid repeated freeze-thaw cycles.

Reconstitution We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20/-80 centigrade. Our default final concentration of glycerol is 50%. Customers could use it as reference.

GENE INFORMATION

Gene Name **ACSS1**

Official Symbol **ACSS1**

Synonyms ACAS2L; ACECS1; AceCS2L; Acetate--CoA ligase 2 Acetyl-CoA synthetase 2

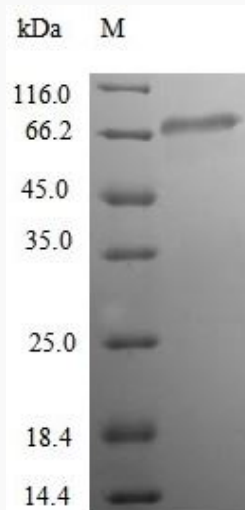
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Gene ID	84532
mRNA Refseq	NM_001252675.1
Protein Refseq	NP_001239604.1
MIM	614355
UniProt ID	Q9NUB1

**SDS-PAGE of
ACSS1-9327H**



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.