

Recombinant Human ACSS1 Protein (38-689 aa), His-tagged

Cat. No. ACSS1-2163H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human ACSS1 Protein (38-689 aa) is produced by Yeast expression system. This protein is fused with a 10xHis tag at the N-terminal. Protein Description: Full Length of Mature Protein.
Species	Human
Source	Yeast
ProteinLength	38-689 aa
Description	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 CO ₂ .
Form	Tris-based buffer, 50% glycerol
Molecular Mass	73.6 kDa
AA Sequence	ASGPSGSAPAVAAAAAQPGSYPALSAQAAREPAAFWGPLARDTLVWDTPYHTVWD CDFSTGKIGWFLGGQLNVSVNCLDQHVRKSPESVALIWERDEPGTEVRITYRELLET TCRLANTLKRHGVHRGDRVAIYMPVSPLAVAAMLACARIGAVHTVIFAGFSAESLAG RINDAKCKVVITFNQGLRGGRVVELKKIVDEAVKHCPTVQHVLVAHRTDNKVHMGDL DVPLEQEMAKEDPVCAPESMGSEDMLFMLYTSGSTGMPKGIVHTQAGYLLYAALTH KLVFDHQPGDIFGCVADIGWITGHSYVVYGPLCNGATSVLFESTPVYPNAGRYWET

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VERLKINQFYGAPTAVRLLKYGDAWVKKYDRSSLRTLGSVGEPINCEAWEWLHRV
 VGDSRCTLVDTWWQTETGGICIAPRPSEEGAEILPAMAMRPFFGIVPVLMDKEGKSV
 VEGSNVSGALCISQAWPGMARTIYGDHQRFDAYFKAYPGYYFTGDGAYRTEGGY
 YQITGRMDDVINISGHR LGTAEIEDAIADHPAVPESAVIGYPHDIKGEAAFAFIVVKDS
 AGDSDVVVQELKSMVATKIAKYAVPDEILVVKRLPKTRSGKVMRLLRKIITSEAQEL
 GDTTLEDPSIIAEILSVYQKCKDKQAAAK

Purity	> 90% as determined by SDS-PAGE.
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4 centigrade for up to one week.
Storage	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 centigrade/-80 centigrade. The shelf life of lyophilized form is 12 months at -20 centigrade/-80 centigrade.
Concentration	A hardcopy of COA will be sent along with the products. Please refer to it for detailed information.

GENE INFORMATION

Gene Name	ACSS1 acyl-CoA synthetase short-chain family member 1 [Homo sapiens]
Official Symbol	ACSS1
Synonyms	ACSS1; AceCS2L; dJ568C11.3; MGC33843; ACAS2L; ACECS1; FLJ45659;
Gene ID	84532
mRNA Refseq	NM_001252675

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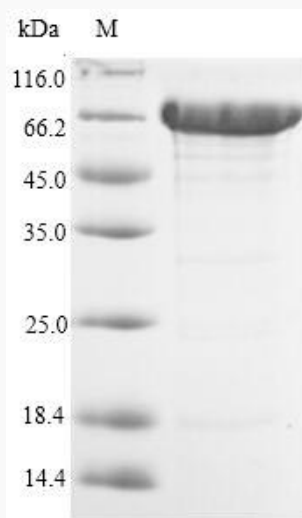
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Protein Refseq NP_001239604

MIM 614355

UniProt ID Q9NUB1



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

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