

Recombinant Human ACSS3, His-tagged

Cat. No. ACSS3-18H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human Acyl-CoA Synthetase Short-Chain Family Member 3 Mitochondrial/ACSS3 is produced by our mammalian expression system in human cells. The target protein is expressed with sequence (Ala30-Ala686) of Human ACSS3 fused with a polyhistidine tag at the C-terminus.
Species	Human
Source	HEK293
ProteinLength	30-686 a.a.
Description	Acyl-CoA Synthetase Short-Chain Family Member 3 Mitochondrial (ACSS3) is a member of the ATP-dependent AMP-binding enzyme family. ACSS3 localizes to the mitochondrion and catalyzes acetate and CoA into diphosphate and acetyl-CoA using the ATP. ACSS3 activates acetate for lipid synthesis use or for energy generation. Two isoforms of the human protein are produced by alternative splicing.
AA Sequence	AGAALRALVVPGRGGLGGRGCRALSSGSGSEYKTHFAASVTDPERFWGKAAEQI SWYKPWTKTL ENKHSPSTRWFVEGMLNICYNAVDRHIENGKGDKIAIIYDSPVTNTK ATFTYKEVLEQVSKLAGV LVKHGIKKGDTVVIYMPMIPQAMYTMLACARIGAIHSLIF GGFASKELSSRIDHVKPKVVVTASF GIEPGRRVEYVPLVEEALKIGQHKPKILYINR PNMEAVPLAPGRDLWDDEEMAKAQSHDCVPVL SEHPLYILYTS GTTGLPKGVIRPT GGYAVMLHWSMSSYGLQPGEVWWAASDLGWVVGHSYICYG PLLHGNTTVLYEG KPVGTPDAGAYFRVLAEHGVAALFTAPT AIRAIRQQDPGAALGKQYSLTRFK TLFVA

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GERCDVETLEWSKNVFRVPVLDHWWQTETGSPITASCVGLGNSKTPPPGQAGKSV
 PGYNV MILDDNMQKLKARCLGNIVVKLPLPPGAFSGLWKNQEAFKHLYFEKFPGY
 DTMDAGYMDEEGYL YVMSRVDDVINVAGHRISAGAIEESILSHGTVADCAVVGKED
 PLKGHVPLALCVRKDKINATEEQ VLEEIVKHVRQNIGPVAAFRNAVFKQLPKTRSG
 KIPRSALSAIVNGKPKYKITSTIEDPSIFGHV EEMLKQAVDHHHHHH

Endotoxin Less than 0.1 ng/μg (1 IEU/μg).

Purity Greater than 95% as determined by SEC-HPLC and reducing SDS-PAGE.

GENE INFORMATION

Gene Name [ACSS3 acyl-CoA synthetase short-chain family member 3 \[Homo sapiens \]](#)

Official Symbol ACSS3

Synonyms ACSS3; acyl-CoA synthetase short-chain family member 3; acyl-CoA synthetase short-chain family member 3, mitochondrial; FLJ21963; AMP-binding enzyme, 33217;

Gene ID [79611](#)

mRNA Refseq [NM_024560](#)

Protein Refseq [NP_078836](#)

MIM [614356](#)

UniProt ID [Q9H6R3](#)

Chromosome Location 12q21.31

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Pathway

Metabolic pathways, organism-specific biosystem; Propanoate metabolism, organism-specific biosystem; Propanoate metabolism, conserved biosystem; acetate conversion to acetyl-CoA, organism-specific biosystem; ethanol degradation II, organism-specific biosystem; ethanol degradation IV, organism-specific biosystem; oxidative ethanol degradation III, organism-specific biosystem;

Function

ATP binding; acetate-CoA ligase activity; ligase activity; nucleotide binding;

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