



# Recombinant Human Acetyl-coenzyme A synthetase, cytoplasmic (ACSS2)

<b>Product Code</b>	CSB-MP873629HU
<b>Abbreviation</b>	ACSS2
<b>Storage</b>	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°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
<b>Uniprot No.</b>	Q9NR19
<b>Product Type</b>	Recombinant Protein
<b>Immunogen Species</b>	Homo sapiens (Human)
<b>Purity</b>	≥85% (SDS-PAGE)
<b>Sequence</b>	MGLPEERVRS GSGSRGQEEA GAGGRARSWS PPPEVSRSAH VPSLQRYREL HRRSVEEPRE FWGDIKEFY WKTPCPGPFL RYNFDVTKGK IFIEWMKGAT TNICYNVLDR NVHEKKLGDV VAFYWEGNEP GETTQITYHQ LLVQVCQFSN VLRKQGIQKG DRVAIYMPMI PELVVAMLAC ARIGALHSIV FAGFSSESLC ERILDSSCSL LITDAFYRG EKLVLNKELA DEALQKCQEK GFPVRCCIVV KHLGRAELGM GDSTSQSPPI KRSCPVDQIS WNQGIDLWWH ELMQEAGDEC EPEWCDAEDP LFILYTSGST GKPKGTVHTV GGYMLYVATT FKYVDFDFAE DVFWDCTADIG WITGHSYVTY GPLANGATSV LFEGIPTYPD VNRLWSIVDK YKVTKFYTAP TAIRLLMKFG DEPVTKHSRA SLQVLGTVGE PINPEAWLWY HRVVGARQRC IVDTFWQTET GGHMLTPLPG ATPMKPGSAT FPFFGVAPAI LNESGEELEG EAEGYLVFKQ PWPGIMRTVY GNHERFETTY FKKFPGYVVT GDGCQRDQDG YYWITGRIDD MLNVSGHLLS TAEVESALVE HEAVAEAAVV GHPHPVKGEC LYCFVTLCDG HTFSPKLTEE LKKQIREKIG PIATPDYIQN APGLPKTRSG KIMRRVLRKI AQNDHDLGDM STVADPSVIS HLFSHRCLTI Q
<b>Source</b>	Mammalian cell
<b>Target Names</b>	ACSS2
<b>Protein Names</b>	Recommended name: Acetyl-coenzyme A synthetase, cytoplasmic EC= 6.2.1.1 Alternative name(s): Acetate--CoA ligase Acetyl-CoA synthetase Short name= ACS Short name= AceCS Acyl-CoA synthetase short-chain family member 2
<b>Expression Region</b>	1-701
<b>Notes</b>	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
<b>Tag Info</b>	Tag type will be determined during the manufacturing process.
<b>Protein Length</b>	full length protein
<b>Target Details</b>	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.

---

**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°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

---

**Shelf Life**

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°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.