



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

|                          |   |
|--------------------------|---|
| <b>Product Code</b>      | CSB-EP873629HU  |
| <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.<br>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<br>VPSLQRYREL HRRSVEEPRE FWG DIAKEFY WKTPCPGPFL RYNFDVTKGK<br>IFIEWMKGAT TNICYNVLDR NVHEKKLGDV VAFYWEGNEP GETTQITYHQ<br>LLVQVCQFSN VLRKQGIQKG DRVAIYMPMI PELVVAMLAC ARIGALHSIV<br>FAGFSSESLC ERILDSSCSL LITDAFYRG EKLVLNKELA DEALQKCQEK<br>GFPVRCCIVV KHLGRAELGM GDSTSQSPPI KRSCP DVQIS WNQGIDLWWH<br>ELMQEAGDEC EPEWCDAEDP LFILYTS GST GPKPGVVHTV GGYMLYVATT<br>FKYVDFDFAE DVFWCTADIG WITGHSYVTY GPLANGATSV LFEGIPTYPD<br>VNRLWSIVDK YKVTKFYTAP TAIRLLMKFG DEPVTKHSRA SLQVLGTVGE<br>PINPEAWLWY HRVVG AQRCPIVDTFWQTET GGHMLTPLPG ATPMKPGSAT<br>FPFFGVAPAI LNESGEELEG EAEGYLVFKQ PWP GIMRTVY GNHERFETTY<br>FKKFP GYYVT GDGCQRDQDG YYWITGRIDD MLNVSGHLLS TAEVESALVE<br>HEAVAEAAVV GHPHPVKGEC LYCFVTLCDG HTFSPKLTEE LKKQIREKIG<br>PIATPDYIQN APGLPKTRSG KIMRRVLRKI AQNDHDLGDM STVADPSVIS<br>HLFSHRCLTI Q |
| <b>Source</b>            | E.coli  |
| <b>Target Names</b>      | ACSS2   |
| <b>Protein Names</b>     | Recommended name: Acetyl-coenzyme A synthetase, cytoplasmic EC= 6.2.1.1<br>Alternative name(s): Acetate--CoA ligase Acetyl-CoA synthetase Short name=<br>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.