

## ACSS2 Protein, Mouse, Recombinant (His)

### General Information

Synonyms:	Acetyl-CoA synthetase (ACS; AceCS); Acas2; Acecs1; cytoplasmic; Acyl-CoA synthetase short-chain family member 2; Acss2; Acetate--CoA ligase; Propionate--CoA ligase; Acetyl-CoA synthetase 1 (AceCS1); Acyl-activating enzyme; Acetyl-coenzyme A synthetase, cytoplasmic
Protein Construction:	1-701 aa
Species:	Mouse
Expression Host:	E. coli
Accession:	Q9QXG4
Molecular Weight:	82.9 kDa (predicted)
AA Sequence:	MGLPEERRKSGSGSRAREETGAEGRVRGWSPPPEVRRSAHPSLQRYRELHRRSVEEPREFWGNIKEFYWK TACPGPFLQYNFDVTKGKIFTEWMKGATTNICYNVLDRNVHEKLGDKVAFYWEGNEPGETTKITYRELLQV CQFSNVLRKQGIQKGDRVAYMPMILELVVAMLACARLGALHSIVFAGFSAESLCERILDSSCCLLTTDAFYRG EKLVNLKELADESLEKCREKGFPVRCCIVVKHLGRAELGMNDSPSQSPVKRPCPDVQICWNEGVDLWWHEL MQQAGDECEPEWCDAEDPLFILYTSGSTGPKGVVHTIGGYMLYVATTFKYVFDHPEDFWCTADIGWITG HSYVTYGPLANGATSVLFEGIPTYPDEGRLWSIVDKYKVTKFYTAIRMLMKFGDDPVTKHSRASLQLGTV GEPINPEAWLWYHRVVGSQRCPIVDTFWQTETGGHMLTPLPGATPMKPGSASFPPFGVAPAILNESGEELEG EAEGYLVFKQPWPGIMRTVYGNHTRFETTYFKKPGYYVTGDGCRRDQDGYYWITGRIDDMLNVSGHLLSTA EVESALVEHEAVAEEAAVVGHPHPVKGECLYCFVLCGDHTFSPTLTEELKKQIREKIGPIATPDYIQNAPGLPKT RSGKIMRRVLRKIAQNDHDLGDTSTVADPSVINHLFSHRCLLTQ

### QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 90% as determined by SDS-PAGE.
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	Tris-based buffer, 50% glycerol

### Preparation and Storage

#### Reconstitution:

A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.

#### Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

#### Shipping:

In general, Lyophilized powders are shipping with blue ice. Solutions are shipping with dry ice.

### Protein Background

Catalyzes the synthesis of acetyl-CoA from short-chain fatty acids. Acetate is the preferred substrate but can also utilize propionate with a much lower affinity.

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