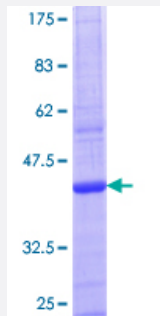


ACSS2 (Human) Recombinant Protein (Q01)

Catalog # H00055902-Q01

Size 25 ug, 10 ug

Applications



Specification

Product Description	Human ACSS2 partial ORF (NP_061147.1, 32 a.a. - 130 a.a.) recombinant protein with GST-tag at N-terminal.
Sequence	PPEVSRSAHVPSLQRYRELHRRSVEEPREFWGDIAKEFYWKTPCPGPFLRYNFDVTGKIFIEWM KGATTNICYNVLDNRNVHEKKLGDKVAFYWEGNEP
Host	Wheat Germ (in vitro)
Theoretical MW (kDa)	36.63
Interspecies Antigen Sequence	Mouse (93); Rat (93)
Preparation Method	in vitro wheat germ expression system
Purification	Glutathione Sepharose 4 Fast Flow
Quality Control Testing	12.5% SDS-PAGE Stained with Coomassie Blue.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
Note	Best use within three months from the date of receipt of this protein.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — ACSS2

Entrez GeneID [55902](#)

GeneBank Accession# [NM_018677](#)

Protein Accession# [NP_061147.1](#)

Gene Name ACSS2

Gene Alias ACAS2, ACS, ACSA, AceCS, DKFZp762G026, dJ1161H23.1

Gene Description acyl-CoA synthetase short-chain family member 2

Omim ID [605832](#)

Gene Ontology [Hyperlink](#)

Gene Summary 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. [provided by RefSeq]

Other Designations OTTHUMP00000030712|OTTHUMP00000030713|OTTHUMP00000030714|OTTHUMP00000030715|OTTHUMP00000030716|acetate thiokinase|acetate-CoA ligase|acetyl-CoA synthetase|acetyl-Coenzyme A synthetase 2 (ADP forming)|acyl-activating enzyme|cytoplasmic acetyl-coenzyme A synthetase

Pathway

- [Glycolysis / Gluconeogenesis](#)

- [Metabolic pathways](#)
- [Propanoate metabolism](#)
- [Pyruvate metabolism](#)
- [Reductive carboxylate cycle \(CO₂ fixation\)](#)

Disease

- [Cardiovascular Diseases](#)
- [Diabetes Mellitus](#)
- [Edema](#)
- [Genetic Predisposition to Disease](#)