

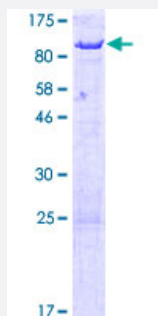
Full-Length

ACSS2 (Human) Recombinant Protein (P01)

Catalog # H00055902-P01

Size 25 ug, 10 ug

Applications



Specification

Product Description

Human ACSS2 full-length ORF (AAH98422.1, 1 a.a. - 606 a.a.) recombinant protein with GST-tag at N-terminal.

Sequence

MKGATTNICYNVLDRNVHEKKLGDKVAFYWEGNEPGETTQITYHQLLVQVCQFSNVLRKQGIQKG
DRVAYMPMPELVVAMLACARIGALHSVFAGFSSESLCERILDSSCSLLITDAFYRGEKLVNLKE
LADEALQKCQEKGFVRCCMVKHLGRAELGMGDSTSQSPPIKRSCPDVQISWNQGIDLWWHEL
MQEAGDECEPEWCDAEDPLFILYTSGSTGKPKGCVHTVGGYMLYVATTFKYVDFHAEDVFWCT
ADIGWITGHSYVTYGPLANGATSVLFEGIPTPDVNRLWSVDKYKVTKFYTAPTAIRLLMKFGDEPV
TKHSRASLQVLGTVGEPINPEAWLWYHRVVGARCPVDTFWQTETGGHMLTPLGATPMKPGS
ATFPFFGVAPAILNESGEELEGEAEGYL VFKQPWPGIMRTVYGNHERFETTYFKKFPGYVTDG
CQRDQDGYWITGRIDDMNLVSGHLLSTAEVESALVEHEAVAEAAVVGHPPVKGECLYCFVTL
CDGHTFSPKLTEELKKQIREKIGPIATPDYIQNAPGLPKTRSGKIMRRVLRKIAQNDHDLGDMSTVA
DPSVISHLFSHRCLTIQ

Host

Wheat Germ (in vitro)

Theoretical MW (kDa)

94

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#	BC098422.1
Protein Accession#	AAH98422.1
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 sy

Pathway

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

Disease

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