

## Recombinant Human ACADVL Protein, GST-Tagged

**Cat. No.** ACADVL-138H    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Human ACADVL full-length ORF ( NP_000009.1, 1 a.a. - 655 a.a.) recombinant protein with GST-tag at N-terminal.                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Source</b>           | Wheat Germ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Description</b>      | The protein encoded by this gene is targeted to the inner mitochondrial membrane where it catalyzes the first step of the mitochondrial fatty acid beta-oxidation pathway. This acyl-Coenzyme A dehydrogenase is specific to long-chain and very-long-chain fatty acids. A deficiency in this gene product reduces myocardial fatty acid beta-oxidation and is associated with cardiomyopathy. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Jul 2008] |
| <b>Molecular Mass</b>   | 73.07 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>AA Sequence</b>      | MAARLLRGSLRVLGGRAPRQLPAARCSHSGGEERLETSAKKLTDIGIRRIFSPEH<br>DIFRKSVRKFFQEEVIPHHSEWEKAGEVSREWEKAGKQGLLGVNIAEHLGGIGGDL<br>YSAAIWEEQAYSNCSPGFSIHSGIVMSYITNHGSEEQIKHFIPQMTAGKCIGAIAM<br>TEPGAGSDLQGIKTNAKKDGS DWILNGSKVFISNGSLSDVVIVVAVTNHEAPSPAHGI<br>SLFLVENGMKGFIKGRKLHKMGLKAQDTAELFFEDIRLPASALLGEENKGFYYIMKEL<br>PQERLLIADVAISASEFMFEETRN YVKQRKAFGKTV AHLQTVQHKLAELKTHICVTRA<br>FVDNCLQLHEAKRLDSATACMAKYWASELQNSVAYDCVQLHGGWGYMWEYPIAK                                                                                  |

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AYVDARVQPIYGGTNEIMKELIAREIVFDK

**Applications**

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

**Notes**

Best use within three months from the date of receipt of this protein.

**Storage**

Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

**Storage Buffer**

50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

## GENE INFORMATION

**Gene Name**

ACADVL acyl-CoA dehydrogenase, very long chain [ Homo sapiens ]

**Official Symbol**

ACADVL

**Synonyms**

ACADVL; acyl-CoA dehydrogenase, very long chain; acyl Coenzyme A dehydrogenase, very long chain; very long-chain specific acyl-CoA dehydrogenase, mitochondrial; ACAD6; LCACD; VLCAD; acyl-Coenzyme A dehydrogenase, very long chain;

**Gene ID**

37

**mRNA Refseq**

NM\_000018

**Protein Refseq**

NP\_000009

**MIM**

609575

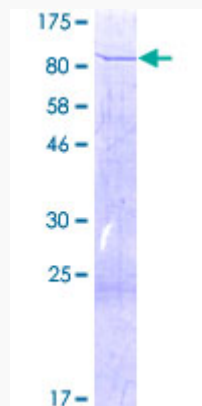
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UniProt ID

P49748



12.5% SDS-PAGE Stained with Coomassie Blue.

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