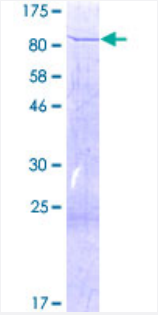
Full-Length

# ACADVL (Human) Recombinant Protein (P01)

Catalog # H00000037-P01 Size 25 ug, 10 ug

## Applications




## Specification

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|---|---|
| **Product Description** | Human ACADVL full-length ORF ( NP_000009.1, 1 a.a. - 655 a.a.) recombinant protein with GST-tag at N-terminal. |
| **Sequence** | MQAARMAASLGRQLLRLGGGSSRLTALLGQPRPGPARRPYAGGAAQLALDKSDSHPSDALTRK KPAKAESKSFAVGMFKGQLTTDQVFPYPSVLNEEQTQFLKELVEPVSRFFEEVNDPAKNDALE MVEETTWQGLKELGAFGLQVPSELGGVGLCNTQYARLVEIVGMHDLGVGITLGAHQSIGFKGILLF GTKAQKEKYLPKLASGETVAAFCLTEPSSGSDAASIRTSAVPSPCGKYYTLNGSKLWISNGGLADI FTVFAKTPVTDPATGAVKEKITAFVVERGFGGITHGPPEKKMGIKASNTAEVFFDGVRVPSENVLG EVGSGFKVAMHILNNGRFGMAAALAGTMRGIIAKAVDHATNRTQFGEKIHNFGLIQEKLARMVMLQ YVTESMAYMVSANMDQGATDFQIEAAISKIFGSEAAWKVTDECIQIMGGMGFMKEPGVERVLRDL RIFRIFEGTNDILRLFVALQGCMDKGKELSGLGSALKNPFGNAGLLLGEAGKQLRRRAGLGSGLSL SGLVHPELSRSGELAVRALEQFATVVEAKLIKHKKGIVNEQFLLQRLADGAIDLYAMVVVLSRASR SLSEGHPTAQHEKMLCDTWCIEAAARIREGMAALQSDPWQQELYRNFKSISKALVERGGVVTSN PLGF |
| **Host** | Wheat Germ (in vitro) |
| **Theoretical MW (kDa)** | 96.8 |
| **Interspecies Antigen Sequence** | Mouse (84); Rat (85) |
| **Preparation Method** | *in vitro* wheat germ expression system |

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| **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 — ACADVL

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|---|---|
| **Entrez GeneID** | 37 |
| **GeneBank Accession#** | NM_000018.2 |
| **Protein Accession#** | NP_000009.1 |
| **Gene Name** | ACADVL |
| **Gene Alias** | ACAD6, LCACD, VLCAD |
| **Gene Description** | acyl-Coenzyme A dehydrogenase, very long chain |
| **Omim ID** | 201475 609575 |
| **Gene Ontology** | Hyperlink |
| **Gene Summary** | The protein encoded by this gene is targeted to the inner mitochondrial membrane where it cataly zes the first step of the mitochondrial fatty acid beta-oxidation pathway. This acyl-Coenzyme A de hydrogenase is specific to long-chain and very-long-chain fatty acids. A deficiency in this gene pr oduct reduces myocardial fatty acid beta-oxidation and is associated with cardiomyopathy. Altern ative splicing results in multiple transcript variants encoding different isoforms. [provided by RefS eq |

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| **Other Designations** | - |

## Publication Reference

- Disorder of fatty acid metabolism in the kidney of PAN-induced nephrotic rats.

  Muroya Y, Ito O, Rong R, Takashima K, Ito D, Cao P, Nakamura Y, Joh K, Kohzuki M.

  American Journal of Physiology. Renal Physiology 2012 Oct; 303(7):F1070.

  Application: Func, WB, Rat, Rat kidney

## Pathway

- Fatty acid metabolism
- Metabolic pathways

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