

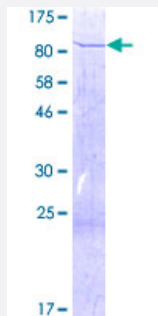
Full-Length

ACADVL (Human) Recombinant Protein (P01)

Catalog # H00000037-P01

Size 25 ug, 10 ug

Applications



Specification

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

MQAARMAASLGRQLRLGGGSSRLTALLGQPRPGPARRPYAGGAAQLALDKSDSHPSDALTRK
KPAKAESKSFVGMFKGQLTTDQVFPYPSVLNEEQTQFLKELVEPVSRFFEEVNDPAKNDAL
MVEETTWQGLKELGAFGLQVPSELGGVGLCNTQYARLVEIVGMHDLGVGITLGAHQSIGFKGILLF
GTKAQKEKYLPLASGETVAAFCLTEPSSGSDAASIRTSAPVSPCGKYTLNGSKLWISNGGLADI
FTVFAKTPVTDPATGAVKEKITAFVVERGFGGITHGPPEKKMGIKASNTAEVFFDGVVRVPSENVLG
EVGSGFKVAMHILNNGRFGMAAALAGTMRGIIAKAVDHATNRTQFGEKIHNFGLIQEKLARMVMLQ
YVTESMAYMVSANMDQGATDFQIEAAISKIFGSEAAWKVTDCEIQIMGGMGFMKEPGVERVLRDL
RIFRIFEGTNDILRLFVALQGCMDKGKELSGLSALKNPFGNAGLLLGEAGQLRRRAGLGSGLSL
SGLVHPELSRSGELAVRALEQFATVVEAKLIHKKGIVNEQFLLQRLADGAIDLAMVVVLSRASR
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](#)

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

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 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]

Other Designations

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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](#)