

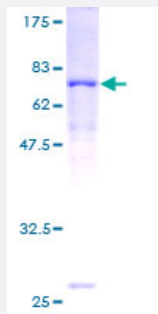
Full-Length

ACADL (Human) Recombinant Protein (P01)

Catalog # H00000033-P01

Size 25 ug, 10 ug

Applications



Specification

Product Description

Human ACADL full-length ORF (AAH39063, 1 a.a. - 430 a.a.) recombinant protein with GST-tag at N-terminal.

Sequence

MAARLLRGSLRVLGGHRAPRQLPAARCSHSGGEERLETPSAKKLTDIGIRRFSPHDIFRKSVRK
FFQEEVIPHHSEWEKAGEVSREVWEKAGKQGLLGVNIAEHLGGIGGDLYSAAMWEEQAYSNCS
GPGFSIHSGIVMSYTNHGSSEEQIKHFIPQMTAGKCIGAIAMTEPGAGSDLQGIKTNAKKDGSDWILN
GSKVFISNGSLSDVVVVAVTNHEAPSPAHGSLFLVENGMGKFIKGRKLHKMGLKAQDTAELFFE
DIRLPASALLGEENKGFYYMKELPQERLLIADVAISASEFMFEETRNYVKQRKAFGKTV AHLQTVQ
HKLAELKTHICVTRAFVDNCLQLHEAKRLDSATACMAKYWASELQNSVAYDCVQLHGGWGYMW
EYPIAKAYVDARVQPIYGGTNEIMKELIAREVFDK

Host

Wheat Germ (in vitro)

Theoretical MW (kDa)

73.04

Interspecies Antigen Sequence

Mouse (87); Rat (87)

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 — ACADL

Entrez GeneID	33
GeneBank Accession#	BC039063
Protein Accession#	AAH39063
Gene Name	ACADL
Gene Alias	ACAD4, FLJ94052, LCAD
Gene Description	acyl-Coenzyme A dehydrogenase, long chain
Omim ID	201460 609576
Gene Ontology	Hyperlink
Gene Summary	The protein encoded by this gene belongs to the acyl-CoA dehydrogenase family, which is a family of mitochondrial flavoenzymes involved in fatty acid and branched chain amino-acid metabolism . This protein is one of the four enzymes that catalyze the initial step of mitochondrial beta-oxidation of straight-chain fatty acid. Defects in this gene are the cause of long-chain acyl-CoA dehydrogenase (LCAD) deficiency, leading to nonketotic hypoglycemia. [provided by RefSeq]
Other Designations	long-chain specific acyl-CoA dehydrogenase

Pathway

- [Fatty acid metabolism](#)
- [Metabolic pathways](#)
- [PPAR signaling pathway](#)

Disease

- [Cardiovascular Diseases](#)
- [Diabetes Mellitus](#)
- [Edema](#)