

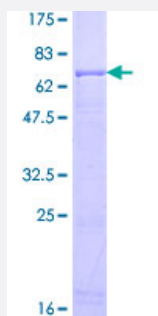
Full-Length

ACADSB (Human) Recombinant Protein (P01)

Catalog # H00000036-P01

Size 25 ug, 10 ug

Applications



Specification

Product Description

Human ACADSB full-length ORF (AAH13756.1, 1 a.a. - 432 a.a.) recombinant protein with GST-tag at N-terminal.

Sequence

MEGLAVRLLRGSKLLRRNFLTCLSSWKIPPHVSKSSQSEALLNITNNGIHFAPLQTFTDEEMMIKSS
VKKFAQEIQIAPLVSTMDENSKMEKSVIQGLFQQGLMGIEVDPEYGGTGASFLSTVLVIEELAKVDA
SVAVFCEIQNTLINTLIRKHGTEEQKATYLPQLTTEKVGSFCLSEAGAGSDSFALKTRADKEGDYYV
LNGSKMWISSAEHAGFLVMANVDPTIGYKGITSFLVDRDTPGLHIGKPENKLGLRASSTCPLTFE
NVKVPEANILGQIGHGYKYAIGSLNEGRIGIAAQMGLAQGCFDYTIPIYKERIQFGKRLDFDQGLQHQ
VAHVATQLEAARLLTYNAARLLEAGKPFKEASMAKYASEIAGQTTSKCIWWMGGVGYTKDYPVE
KYFRDAKIGTYEGASNIQLNTIAKHIDA EY

Host

Wheat Germ (in vitro)

Theoretical MW (kDa)

73.26

Interspecies Antigen Sequence

Mouse (83); Rat (84)

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 — ACADSB

Entrez GeneID	36
GeneBank Accession#	BC013756
Protein Accession#	AAH13756.1
Gene Name	ACADSB
Gene Alias	2-MEBCAD, ACAD7, SBCAD
Gene Description	acyl-Coenzyme A dehydrogenase, short/branched chain
Omim ID	600301 610006
Gene Ontology	Hyperlink
Gene Summary	Short/branched chain acyl-CoA dehydrogenase(ACADSB) is a member of the acyl-CoA dehydrogenase family of enzymes that catalyze the dehydrogenation of acyl-CoA derivatives in the metabolism of fatty acids or branch chained amino acids. Substrate specificity is the primary characteristic used to define members of this gene family. The ACADSB gene product has the greatest activity towards the short branched chain acyl-CoA derivative, (S)-2-methylbutyryl-CoA, but also reacts significantly with other 2-methyl branched chain substrates and with short straight chain acyl-CoAs. The cDNA encodes for a mitochondrial precursor protein which is cleaved upon mitochondrial import and predicted to yield a mature peptide of approximately 43.7-KDa. [provided by RefSeq]
Other Designations	2-methyl branched chain acyl-CoA dehydrogenase 2-methylbutyryl-CoA dehydrogenase OTTHUMP00000020685 OTTHUMP00000046795

Pathway

- [Fatty acid metabolism](#)
- [Metabolic pathways](#)
- [Valine](#)

Disease

- [Alzheimer Disease](#)
- [Genetic Predisposition to Disease](#)
- [Hypertension](#)