abcam

Product datasheet

Recombinant Human ACADVL/VLCAD protein ab98234

1 Image

Description

Product name	Recombinant Human ACADVL/VLCAD protein
Purity	> 90 % SDS-PAGE. ab98234 was purified using conventional chromatography techniques.
Expression system	Escherichia coli
Accession	P49748
Protein length	Full length protein
Animal free	No
Nature	Recombinant
Species	Human
Sequence	**MGSSHHHHHHSSGLVPRGSHM**AGGAAQLALDKSDSHP SDALTRKKPAKAE SKSFAVGMFKGQLTTDQVFPYPSVLNEEQTQFLKELVEP VSRFFEEVNDP AKNDALEMVEETTWQGLKELGAFGLQVPSELGGVGLCN TQYARLVEIVGM HDLGVGITLGAHQSIGFKGILLFGTKAQKEKYLPKLASGET VAAFCLTEP SSGSDAASIRTSAVPSPCGKYYTLNGSKLWISNGGLADIFT VFAKTPVTD PATGAVKEKITAFVVERGFGGITHGPPEKKMGIKASNTAEV FFDGVRVPS ENVLGEVGSGFKVAMHILNNGRFGMAAALAGTMRGIIAKA VDHATNRTQF GEKIHNFGLIQEKLARMVMLQYVTESMAYMVSANMDQGA TDFQIEAAISK IFGSEAAWKVTDECIQIMGGMGFMKEPGVERVLRDLRIFRI FEGTNDILR LFVALQGCMDKGKELSGLGSALKNPFGNAGLLLGEAGKQ LRRRAGLGSGL SLSGLVHPELSRSGELAVRALEQFATVVEAKLIKHKKGIVN EQFLLQRLA DGAIDLYAMVVVLSRASRSLSEGHPTAQHEKMLCDTWCI EAAARIREGMA ALQSDPWQQELYRNFKSISKALVERGGVVTSNPLGF

Predicted molecular weight	69 kDa including tags
Amino acids	41 to 655
Tags	His tag N-Terminus

Specifications

Our **Abpromise guarantee** covers the use of **ab98234** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Applications	SDS-PAGE
Form	Liquid
Additional notes	Previously labelled as ACADVL.

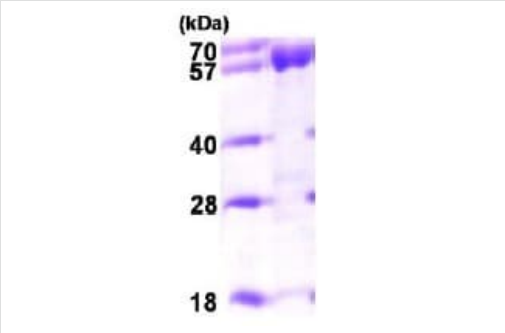
Preparation and Storage

Stability and Storage	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle. pH: 8.00 Constituents: 0.0154% DTT, 0.316% Tris HCl, 0.0292% EDTA, 10% Glycerol (glycerin, glycerine), 0.58% Sodium chloride

General Info

Function	Active toward esters of long-chain and very long chain fatty acids such as palmitoyl-CoA, mysritoyl-CoA and stearoyl-CoA. Can accomodate substrate acyl chain lengths as long as 24 carbons, but shows little activity for substrates of less than 12 carbons.
Pathway	Lipid metabolism; mitochondrial fatty acid beta-oxidation.
Involvement in disease	Defects in ACADVL are the cause of acyl-CoA dehydrogenase very long chain deficiency (ACADVLD) [MIM:201475]. ACADVLD is an autosomal recessive disease which leads to impaired long-chain fatty acid beta-oxidation. It is clinically heterogeneous, with three major phenotypes: a severe childhood form, with early onset, high mortality, and high incidence of cardiomyopathy; a milder childhood form, with later onset, usually with hypoketotic hypoglycemia as the main presenting feature, low mortality, and rare cardiomyopathy; and an adult form, with isolated skeletal muscle involvement, rhabdomyolysis, and myoglobinuria, usually triggered by exercise or fasting.
Sequence similarities	Belongs to the acyl-CoA dehydrogenase family.
Cellular localization	Mitochondrion inner membrane.

Images



SDS-PAGE - Recombinant Human ACADVL/VLCAD protein (ab98234)

15% SDS-PAGE analysis of 3µg ab98234

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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