



# Recombinant Human Very long-chain specific acyl-CoA dehydrogenase, mitochondrial (ACADVL)

<b>Product Code</b>	CSB-EP001129HU
<b>Storage</b>	Store at -20°C, for extended storage, conserve at -20°C or -80°C.
<b>Uniprot No.</b>	P49748
<b>Product Type</b>	Recombinant Protein
<b>Immunogen Species</b>	Homo sapiens (Human)
<b>Purity</b>	>85% (SDS-PAGE)
<b>Sequence</b>	AGGAAQLALD KSDSHPSDAL TRKKPAKAES KSFAVGMFKG QLTTDQVFPY PSVLNEEQTQ FLKELVEPVS RFFEEVNDPA KNDALEMVEE TTWQGLKELG AFGLQVPSEL GGVGLCNTQY ARLVEIVGMH DLGVGITLGA HQSIGFKGIL LFGTKAQKEK YLPKLASGET VAAFCLTEPS SGSDAASIRT SAVSPCGKY YTLNGSKLWI SNGGLADIFT VFAKTPVTDP ATGAVKEKIT AFVVERGFSG ITHGPPEKKM GIKASNTAEV FFDGVRVPSE NVLGEVGSFG KHAMHILNNG RFGMAAALAG TMRGIIAKAV DHATNRTQFG EKIHNFLGIQ EKLARMVMLQ YVTESMAYMV SANMDQGATD FQIEAAISKI FGSEAAWKVT DECIQIMGGM GFMKEPGVER VLRDLRIFRI FEGTNDILRL FVALQGCMNDK GKELSGLGSA LKNPFGNAGL LLGEAGKQLR RRAGLGSGLS LSGLVHPELS RSGELAVRAL EQFATVVEAK LIKHKKGIVN EQFLLQRLAD GAIDLYAMVV VLSRASRSLS EGHPTAQHEK MLCDTWCIEA AARIREGMAA LQSDPWQQEL YRNFKSISKA LVERGGVVTS NPLGF
<b>Source</b>	E.coli
<b>Target Names</b>	ACADVL
<b>Protein Names</b>	Recommended name: Very long-chain specific acyl-CoA dehydrogenase, mitochondrial Short name= VLCAD EC= 1.3.99.-
<b>Expression Region</b>	41-655
<b>Notes</b>	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
<b>Tag Info</b>	Tag type will be determined during the manufacturing process.
<b>Protein Length</b>	Full Length of Mature Protein
<b>Target Details</b>	This protein 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.
<b>Reconstitution</b>	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final



concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

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### Shelf Life

The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself.

Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.