



# Recombinant Human Short-chain specific acyl-CoA dehydrogenase, mitochondrial (ACADS)

<b>Product Code</b>	CSB-EP001127HU-B
<b>Storage</b>	Store at -20°C, for extended storage, conserve at -20°C or -80°C.
<b>Uniprot No.</b>	P16219
<b>Product Type</b>	Recombinant Protein
<b>Immunogen Species</b>	Homo sapiens (Human)
<b>Purity</b>	>85% (SDS-PAGE)
<b>Sequence</b>	LHTIYQ SVELPETHQM LLQTCRDFAE KELFPAAQV DKEHLFPAAQ VKKMGGLGLL AMDVPEELGG AGLDYLAYAI AMEEISRGCA STGVIMSVNN SLYLGPIKF GSKEQKQAWV TPFTSGDKIG CFALSEPGNG SDAGAASTTA RAEGDSWVLN GTKAWITNAW EASAAVVFAS TDRALQNKGI SAFLVPMPTP GLTLGKKEDK LGIRGSSTAN LIFEDCRIPK DSILGEPGMG FKIAMQTLDM GRIGIASQAL GIAQTALDCA VNYAENRMAF GAPLTKLQVI QFKLADMALA LESARLLTWR AAMLKDNKKP FIKEAAMAKL AASEAATAIS HQAIQILGGM GYVTEMPAER HYRDARITEI YEGTSEIQRL VIAGHLLRSY RS
<b>Source</b>	E.coli
<b>Target Names</b>	ACADS
<b>Protein Names</b>	Recommended name: Short-chain specific acyl-CoA dehydrogenase, mitochondrial Short name= SCAD EC= 1.3.8.1 Alternative name(s): Butyryl-CoA dehydrogenase
<b>Expression Region</b>	25-412
<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 gene encodes a tetrameric mitochondrial flavoprotein, which is a member of the acyl-CoA dehydrogenase family. This enzyme catalyzes the initial step of the mitochondrial fatty acid beta-oxidation pathway. Mutations in this gene have been associated with Short Chain Acyl-CoA Dehydrogenase Deficiency.
<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.
<b>Shelf Life</b>	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.