



# Recombinant Human Medium-chain specific acyl-CoA dehydrogenase, mitochondrial (ACADM)

<b>Product Code</b>	CSB-MP001126HU
<b>Storage</b>	Store at -20°C, for extended storage, conserve at -20°C or -80°C.
<b>Uniprot No.</b>	P11310
<b>Product Type</b>	Recombinant Protein
<b>Immunogen Species</b>	Homo sapiens (Human)
<b>Purity</b>	>85% (SDS-PAGE)
<b>Sequence</b>	KANRQ REPGLGFSFE FTEQQKEFQA TARKFAREEI IPVAAEYDKT GEYPVPLIRR AWELGLMNTH IPENCGGLGL GTFDACLISE ELAYGCTGVQ TAIEGNSLGQ MPIIIAGNDQ QKKKYLGRMT EEPLMCAYCV TEPGAGSDVA GIKTKAEKKG DEYIINGQKM WITNGGKANW YLLARSDPD PKAPANKAFT GFIVEADTPG IQIGRKELNM GQRCSOTRGI VFEDVKVPKE NVLIGDGAGF KVAMGAFDKT RPVVAAGAVG LAQRALDEAT KYALERKTFG KLLVEHQAI FMLAEMAMKV ELARMSYQRA AWEVDSGRRN TYYASIAKAF AGDIANQLAT DAVQILGGNG FNTEYPVEKL MRDAKIYQIY EGTSQIQRLI VAREHIDKYK N
<b>Source</b>	Mammalian cell
<b>Target Names</b>	ACADM
<b>Protein Names</b>	Recommended name: Medium-chain specific acyl-CoA dehydrogenase, mitochondrial Short name= MCAD EC= 1.3.99.3
<b>Expression Region</b>	26-421
<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 the medium-chain specific (C4 to C12 straight chain) acyl-Coenzyme A dehydrogenase. The homotetramer enzyme catalyzes the initial step of the mitochondrial fatty acid beta-oxidation pathway. Defects in this gene cause medium-chain acyl-CoA dehydrogenase deficiency, a disease characterized by hepatic dysfunction, fasting hypoglycemia, and encephalopathy, which can result in infantile death. Alternatively spliced transcript variants encoding different isoforms have been found for this gene.
<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.