

Recombinant Human ACADM Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. ACADM-1433H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	ACADM MS Standard C13 and N15-labeled recombinant protein (NP_000007) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	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.
Molecular Mass	46.6 kDa
AA Sequence	MAAGFGRCCRVLRSISRFWRSQHTKANRQREPGLGFSFEFTEQQKEFQATARKF AREEIPVAAEYDKTGEYPVPLIRRAWELGLMNTHIPENCGGLGLGTFDACLISEELA YGCTGVQTAIEGNSLQMPPIIIAGNDQQKKKYLGRMTEEPLMCAYCVTEPGAGSDV AGIKTKAEKKGDEYIINGQKMWITNGGKANWYFLLARSDPDPKAPANKAFTGFIVEA DTPGIQIGRKELNMGQRCS DTRGIVFEDVKVPKENVLIGDGAGFKVAMGAFDKTRPV VAAGAVGLAQRALDEATKYALERKTFGKLLVEHQAISFMLAEMAMKVELARMSYQR

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AAWEVDSGRRNTYYASIAKAFAGDIANQLATDAVQILGGNGFNTEYPVEKLMRDAKI
YQIYEGTSQIQRLIVAREHIDKYKNTRTRPLEQKLISEEDLAANDILDYKDDDDKV

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name [ACADM acyl-CoA dehydrogenase medium chain \[Homo sapiens \(human\) \]](#)

Official Symbol [ACADM](#)

Synonyms ACADM; acyl-CoA dehydrogenase, C-4 to C-12 straight chain; acyl Coenzyme A dehydrogenase, C 4 to C 12 straight chain; medium-chain specific acyl-CoA dehydrogenase, mitochondrial; ACAD1; MCAD; MCADH; acyl-Coenzyme A dehydrogenase, C-4 to C-12 straight chain;

Gene ID [34](#)

mRNA Refseq [NM_000016](#)

Protein Refseq [NP_000007](#)

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MIM 607008

UniProt ID P11310

SDS-PAGE



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