

Product datasheet for PH302798

ACADM (NM_000016) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	ACADM MS Standard C13 and N15-labeled recombinant protein (NP_000007)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC202798
Predicted MW:	46.6 kDa
Protein Sequence:	>RC202798 protein sequence Red=Cloning site Green=Tags(s)

MAAGFGRCCRVLRSISRFBWRSQHTKANRQREPGLGFSFEFTEQQKEFQATARKFAREEIIIPVAAEYDKT
GEYPVPLIRRAWELGLMNTHIPENCGGLGLGTFDACLISEELAYGCTGVQTAIEGNSLGQMPIIIAGNDQ
QKKKYLGRMTEEPLMCAYCVTEPGAGSDVAGIKTKAEKKGDEYIINGQKMWITNGGKANWYFLLARSDPD
PKAPANKAFTGFIVEADTPGIQIGRKELNMGQRCSDRGIVFEDVKVPKENVLIGDGAGFKVAMGAFDKT
RPVVAAGAVGLAQRALDEATKYALERKTFGKLLVEHQAI SFMLAEMAMKVELARMSYQRAAWEVDSGRN
TYYASIAKAFAGDIANQLATDAVQILGGNGFNTEYPVEKLMRDAKIYQIYEGTSQIQRLLIVAREHIDKYK
N

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- ¹³ C ₆ , ¹⁵ N ₄]-L-Arginine and [U- ¹³ C ₆ , ¹⁵ N ₂]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	<u>NP_000007</u>
RefSeq Size:	2623
RefSeq ORF:	1263
Synonyms:	ACAD1; MCAD; MCADH



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Locus ID: 34

UniProt ID: [P11310](#), [A0A0S2Z366](#)

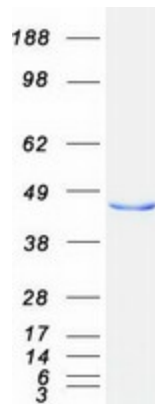
Cytogenetics: 1p31.1

Summary: 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. [provided by RefSeq, Jul 2008]

Protein Families: Druggable Genome

Protein Pathways: beta-Alanine metabolism, Fatty acid metabolism, Metabolic pathways, PPAR signaling pathway, Propanoate metabolism, Valine, leucine and isoleucine degradation

Product images:



Coomassie blue staining of purified ACADM protein (Cat# [TP302798]). The protein was produced from HEK293T cells transfected with ACADM cDNA clone (Cat# [RC202798]) using MegaTran 2.0 (Cat# [TT210002]).