

## Product datasheet for PH306855

### ACADS (NM\_000017) Human Mass Spec Standard

#### Product data:

Product Type:	Mass Spec Standards
Description:	ACADS MS Standard C13 and N15-labeled recombinant protein (NP_000008)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC206855
Predicted MW:	44.3 kDa
Protein Sequence:	>RC206855 protein sequence Red=Cloning site Green=Tags(s)

MAAALLARASGPARRALCPRAWQLHTIYQSVLPETHQMLLQTCRDFAEKELFPIAAQVDKEHLFPAAQ  
YKKMGGLGLLAMDVPEELGGAGLDYLAYAIAMEEISRGCASTGVIMSVNNSLYLGPILKFGSKEQKQAWV  
TPFTSGDKIGCFALSEPGNGSDAGAASTTARAEGDSWVLNGTKAWITNAWEASAAVVFSTDRALQNKSI  
SAFLVPMPTPGLTLGKKEDKLGIRGSSTANLIFEDCRIPKDSILGEPGMGFKIAMQTLDMGRIGIASQAL  
GIAQTALDCAVNYAENRMAFGAPLTKLQVIQFKLADMALALESARLLTWRAAMLKDNKKPFIKEAAMAKL  
AASEAATAISHQAIQILGGMGYVTEMPAERHYRDARITEIYEGTSEIQRLVIAGHLLRSYRS

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- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>4</sub> ]-L-Arginine and [U- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>2</sub> ]-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_000008</u>
RefSeq Size:	1934
RefSeq ORF:	1236
Synonyms:	ACAD3; SCAD
Locus ID:	35



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UniProt ID: [P16219](#), [E5KSD5](#)

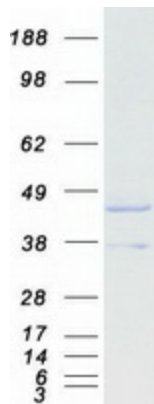
Cytogenetics: 12q24.31

Summary: 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 (SCAD) deficiency. Alternative splicing results in two variants which encode different isoforms. [provided by RefSeq, Oct 2014]

Protein Families: Druggable Genome

Protein Pathways: Butanoate metabolism, Fatty acid metabolism, Metabolic pathways, Valine, leucine and isoleucine degradation

### Product images:



Coomassie blue staining of purified ACADS protein (Cat# [TP306855]). The protein was produced from HEK293T cells transfected with ACADS cDNA clone (Cat# [RC206855]) using MegaTran 2.0 (Cat# [TT210002]).