

## Product datasheet for **TP306855L**

### ACADS (NM\_000017) Human Recombinant Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human acyl-Coenzyme A dehydrogenase, C-2 to C-3 short chain (ACADS), nuclear gene encoding mitochondrial protein, 1 mg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC206855 protein sequence <b>Red</b> =Cloning site <b>Green</b> =Tags(s)

MAAALLARASGPARRALCPRAWRQLHTIYQSVELPETHQMLLQTCRDFAEKELFPAAQVQVDFKEHLFPAAQ  
VKKMGGLGLLAMDVPEELGGAGLDYLAYAIAMEEISRGCASTGVIMSVNNSLYLGPILKFGSKEQKQAWV  
TPFTSGDKIGCFALSEPNGSDAGAASTTARAEGDSWVLNGTKAWITNAWEASAAVFASTDRALQNKSI  
SAFLVPMPTPGLTLGKKEDKLGIRGSSTANLIFEDCRIPKDSILGEPGMGFKIAMQTLDMGRIGIASQAL  
GIAQTALDCAVNYAENRMAFGAPLTKLQVIQFKLADMALAESARLLTWRAAMLKDNKKPFIKEAAMAKL  
AASEAATAISHQAIQILGGMGYVTEMPAERHYRDARITEIYEGTSEIQRLVIAGHLLRSYRS

**TRTRPLEQKLISEEDLAANDILDYKDDDDKV**

Tag:	C-Myc/DDK
Predicted MW:	41.7 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Preparation:	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C.
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	<u><a href="#">NP_000008</a></u>



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Locus ID: 35

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

RefSeq Size: 1934

Cytogenetics: 12q24.31

RefSeq ORF: 1236

Synonyms: ACAD3; SCAD

**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]).