

## Product datasheet for **TP301821**

### ACAT2 (NM\_005891) Human Recombinant Protein

#### Product data:

**Product Type:** Recombinant Proteins

**Description:** Recombinant protein of human acetyl-Coenzyme A acetyltransferase 2 (ACAT2), 20 µg

**Species:** Human

**Expression Host:** HEK293T

**Expression cDNA Clone  
or AA Sequence:** >RC201821 protein sequence  
**Red**=Cloning site **Green**=Tags(s)

MNAGSDPVVIVSAARTIIGSFNGALAAVPVQDLGSTVIKEVLKRATVAPEDVSEVIFGHVLAAGCGQNPV  
RQASVGAGIPYSVPAWSCQMICGSLKAVCLAVQSIGIGDSSIVVAGGMENMSKAPHLAYLRTGVKIGEM  
PLTDSILCDGLTDAFHNCHMGITAENVAKKWQVSREDQDKVAVLSQNRTENAQKAGHFDKEIVPVLVST  
R

RGLIEVKTDEFPRHGSNIEAMSKLKPFLTDGTGTVPANASGINDGAAAVLMMKKSEADKRGLTPLARI  
VSWVQGVPEPSIMGIGIPIPAIKQAVTKAGWSLEDVDIFEINEAFAAVSAAIVKELGLNPEKVNIEGGAIA  
LGHPLGASGCRLVTLHTLERMGRSRGVAALCIGGGMGIAMCVQRE

**TRTRPLEQKLISEEDLAANDILDYKDDDDKV**

**Tag:** C-Myc/DDK

**Predicted MW:** 41.2 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:** [NP\\_005882](#)



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Locus ID: 39

UniProt ID: [Q9BWD1](#)

RefSeq Size: 1567

Cytogenetics: 6q25.3

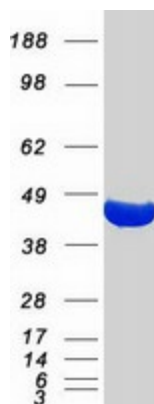
RefSeq ORF: 1191

**Summary:** The product of this gene is an enzyme involved in lipid metabolism, and it encodes cytosolic acetoacetyl-CoA thiolase. This gene shows complementary overlapping with the 3-prime region of the TCP1 gene in both mouse and human. These genes are encoded on opposite strands of DNA, as well as in opposite transcriptional orientation. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Dec 2014]

**Protein Families:** Druggable Genome

**Protein Pathways:** Butanoate metabolism, Fatty acid metabolism, Lysine degradation, Metabolic pathways, Propanoate metabolism, Pyruvate metabolism, Synthesis and degradation of ketone bodies, Terpenoid backbone biosynthesis, Tryptophan metabolism, Valine, leucine and isoleucine degradation

### Product images:



Coomassie blue staining of purified ACAT2 protein (Cat# TP301821). The protein was produced from HEK293T cells transfected with ACAT2 cDNA clone (Cat# [RC201821]) using MegaTran 2.0 (Cat# [TT210002]).