

Product datasheet for PH301821

ACAT2 (NM_005891) Human Mass Spec Standard

Product data:

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|---------------------------------------|---|
| Product Type: | Mass Spec Standards |
| Description: | ACAT2 MS Standard C13 and N15-labeled recombinant protein (NP_005882) |
| Species: | Human |
| Expression Host: | HEK293 |
| Expression cDNA Clone or AA Sequence: | RC201821 |
| Predicted MW: | 41.4 kDa |
| Protein Sequence: | >RC201821 protein sequence Red=Cloning site Green=Tags(s) |

MNAGSDPVVIVSAARTIIGSFNGALAAVPVQDLGSTVIKEVLKRATVAPEDVSEVIFGHVLAAGCGQNPV
RQASVGAGIPYSVPAWSCQMICGSLKAVCLAVQSIGIGDSSI VVAGGMENMSKAPHLAYLRTGVKIGEM
PLTDSILCDGLTDAFHNCHMGITAENVAKKWQVSREDQDKVAVLSQNRTEAQAQKAGHFDKEIVPVLVSTR
RGLIEVKTDFPRHGSNIEAMSKLKPFLTDGTGTVTPANASGINDGAAAVVLMKKSEADKRGLTPLARI
VSWSQVGVEPSIMGIGPIPAIKQAVTKAGWSLEDVDIFEINEAFAAVSAAIVKELGLNPEKVNIEGGAIA
LGHPLGASGRILVTLHLTLERMGRSRGVAALCIGGGMGIAMCVQRE

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

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|------------------|--|
| 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: | NP_005882 |
| RefSeq Size: | 1567 |
| RefSeq ORF: | 1191 |
| Locus ID: | 39 |
| UniProt ID: | Q9BWD1 |



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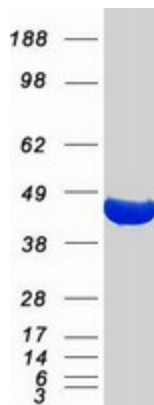
Cytogenetics: 6q25.3

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]).