

Product datasheet for TP506222

Acaa2 (NM_177470) Mouse Recombinant Protein

Product data:

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|---------------------------------------|--|
| Product Type: | Recombinant Proteins |
| Description: | Purified recombinant protein of Mouse acetyl-Coenzyme A acyltransferase 2 (mitochondrial 3-oxoacyl-Coenzyme A thiolase) (Acaa2), with C-terminal MYC/DDK tag, expressed in HEK293T cells, 20ug |
| Species: | Mouse |
| Expression Host: | HEK293T |
| Expression cDNA Clone or AA Sequence: | >MR206222 protein sequence Red =Cloning site Green =Tags(s) |

MALLRGVFIVAARKRTPFGAYGGLLKDFSATDLTEFAARAALSAGKVPETIDSVIVGNVMQSSSDAAYLA
RHVGLRVGPVTETGALTLNRLCGSGFQSIIVSGCQEICKDAEVLCCGGTESMSQSPYCVRNVRFGTKFGL
DLKLEDTLWAGLTDQHVKLPMGMTAENLAAKYNISREDCDRYALQSQRWKAANEAGYFNEEMAPIEVKT
KKGKQTMQVDEHARPQTTLEQLQKLPVFKDGTVTAGNASGVSDGAGAVIIASEDAVKKHNFTPLARVV
GYFVSGCDPTIMGIGPVPAINGALKKAGLSLKDMDLIDVNEAFAPQFLSVQKALDLDPSKTNVSGGAIAL
GHPLGGSGSRITAHLVHELRRRGGKYAVGSACIGGGQGIALIIQNTV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

| | |
|----------------|--|
| Tag: | C-MYC/DDK |
| Predicted MW: | 41.9 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 |
| 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 after receiving vials. |
| 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_803421 |
| Locus ID: | 52538 |



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UniProt ID: [Q8BWT1](#)

RefSeq Size: 1500

Cytogenetics: 18 50.76 cM

RefSeq ORF: 1194

Synonyms: 0610011L04Rik; AI255831; AI265397; D18Ertd240e

Summary: In the production of energy from fats, this is one of the enzymes that catalyzes the last step of the mitochondrial beta-oxidation pathway, an aerobic process breaking down fatty acids into acetyl-CoA. Using free coenzyme A/CoA, catalyzes the thiolytic cleavage of medium- to long-chain unbranched 3-oxoacyl-CoAs into acetyl-CoA and a fatty acyl-CoA shortened by two carbon atoms. Also catalyzes the condensation of two acetyl-CoA molecules into acetoacetyl-CoA and could be involved in the production of ketone bodies. Also displays hydrolase activity on various fatty acyl-CoAs (By similarity). Thereby, could be responsible for the production of acetate in a side reaction to beta-oxidation (By similarity). Abolishes BNIP3-mediated apoptosis and mitochondrial damage (By similarity).[UniProtKB/Swiss-Prot Function]