

# Recombinant Rat ACACA Protein (116-617 aa), His-tagged

**Cat. No.** ACACA-1862R    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant Rat ACACA Protein (116-617 aa) is produced by Yeast expression system. This protein is fused with a 6xHis tag at the N-terminal. Research Area: Cancer. Protein Description: Partial.                                                                                                                                                                                                                                                |
| <b>Species</b>          | Rat                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Source</b>           | Yeast                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>ProteinLength</b>    | 116-617 aa                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Description</b>      | Catalyzes the rate-limiting reaction in the biogenesis of long-chain fatty acids. Carries out three functions: biotin carboxyl carrier protein, biotin carboxylase and carboxyltransferase.                                                                                                                                                                                                                                                      |
| <b>Form</b>             | Tris-based buffer, 50% glycerol                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Molecular Mass</b>   | 57.8 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>AA Sequence</b>      | VIEKVLIANNGIAAVKCMRSIRRWSEYEMFRNERAIRFVVMVTPEDLKANA EYIKMADH<br>YVPVPGGANNNNYANVELILDI AKRIPVQAVWAGWGHASENPKLPELLLNKNGIAFMG<br>PPSQAMWALGDKIASSIVAQTAGIPTLPWSGSGLRVDWQENDFSKRILNVPQDLYE<br>KGYVKD VDDGLKAAEEVGYPVMIKASEGGGKGIRKVN NADDFPNLFRQVQAEVP<br>GSPIFVMRLAKQSRHLEVQILADQYGN AISLFG RDCSVQRRHQKII EEAPAAIATPAVF<br>EHMEQCAVKLAKMVG YVSAGTVEYLYSQDGSFYFLELNPRLQVEHPCTEMVADV N<br>LPAAQLQIAMGIPLFRIKDIRMMYGVSPWGDAPIDFENSAHVPCPRGHVIAARITSEN |

 Tel: 1-631-559-9269    1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)     Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

|                      |                                                                                                                                                                                                                                                                                                                     |
|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                      | PDEGFKPSSGTVQELNFRSNKNVWGYFSVAAAGGLHEFADSQFGHCFSWGENRE<br>EASNMVVALKELSIRGDFRTTVEYLIKLLLETESFQLNRIDTGWLDRLIA                                                                                                                                                                                                        |
| <b>Purity</b>        | > 90% as determined by SDS-PAGE.                                                                                                                                                                                                                                                                                    |
| <b>Notes</b>         | Repeated freezing and thawing is not recommended. Store working aliquots at 4 centigrade for up to one week.                                                                                                                                                                                                        |
| <b>Storage</b>       | The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20 centigrade/-80 centigrade. The shelf life of lyophilized form is 12 months at -20 centigrade/-80 centigrade. |
| <b>Concentration</b> | A hardcopy of COA with reconstitution instruction is sent along with the products.                                                                                                                                                                                                                                  |

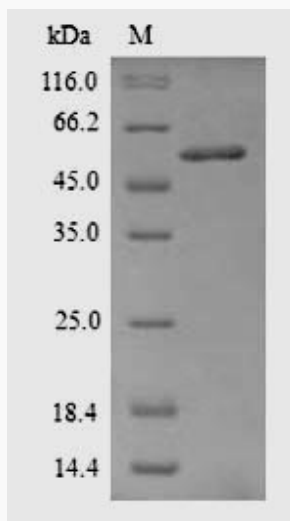
## GENE INFORMATION

|                        |                                                             |
|------------------------|-------------------------------------------------------------|
| <b>Gene Name</b>       | Acaca acetyl-CoA carboxylase alpha [ Rattus norvegicus ]    |
| <b>Official Symbol</b> | ACACA                                                       |
| <b>Synonyms</b>        | ACACA; acetyl-CoA carboxylase alpha; ACC-alpha; ACC1; Acac; |
| <b>Gene ID</b>         | 60581                                                       |
| <b>mRNA Refseq</b>     | NM_022193                                                   |
| <b>Protein Refseq</b>  | NP_071529                                                   |
| <b>UniProt ID</b>      | P11497                                                      |

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(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

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