Recombinant Human ACACA Protein, His-tagged

Cat. No. ACACA-18H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human ACACA Protein (Pro1185-Phe1352) with N-His tag was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	Pro1185-Phe1352
Description	Acetyl-CoA carboxylase (ACC) is a complex multifunctional enzyme system. ACC is a biotin-containing enzyme which catalyzes the carboxylation of acetyl-CoA to malonyl-CoA, the rate-limiting step in fatty acid synthesis. There are two ACC forms, alpha an d beta, encoded by two different genes. ACC-alpha is highly enriched in lipogenic tiss ues. The enzyme is under long term control at the transcriptional and translational lev els and under short term regulation by the phosphorylation/dephosphorylation of targe ted serine residues and by allosteric transformation by citrate or palmitoyl-CoA. Multip le alternatively spliced transcript variants divergent in the 5' sequence and encoding d istinct isoforms have been found for this gene.
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 19.4 kDa
Purity	> 97%

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Applications	Positive Control; Immunogen; SDS-PAGE; WB.
Stability	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 centigrade for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.
Storage Buffer	PBS, pH7.4, containing 0.01% SKL, 1 mM DTT, 5% Trehalose and Proclin300.
Reconstitution	Reconstitute in sterile water to a concentration of 0.1-1.0 mg/mL. Do not vortex.

GENE INFORMATION

Gene Name	ACACA acetyl-CoA carboxylase alpha [Homo sapiens (human)]
Official Symbol	ACACA
Synonyms	ACACA; acetyl-CoA carboxylase alpha; ACAC, ACC, acetyl Coenzyme A carboxylase alpha; acetyl-CoA carboxylase 1; ACC1; acetyl CoA carboxylase 1; ACC-alpha; acetyl-Coenzyme A carboxylase alpha; ACC; ACAC; ACCA; ACACAD
Gene ID	31
mRNA Refseq	NM_198834
Protein Refseq	NP_942131
MIM	200350

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UniProt ID	Q13085

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