

## Active Recombinant Human ACACB protein, His-tagged

Cat. No. ACACB-1849H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant full length Human ACACB fused with His tag at N-terminal was expressed in Insect cells.
<b>Species</b>	Human
<b>Source</b>	Insect Cells
<b>Description</b>	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. ACC-beta is thought to control fatty acid oxidation by means of the ability of malonyl-CoA to inhibit carnitine-palmitoyl-CoA transferase I, the rate-limiting step in fatty acid uptake and oxidation by mitochondria. ACC-beta may be involved in the regulation of fatty acid oxidation, rather than fatty acid biosynthesis. There is evidence for the presence of two ACC-beta isoforms.
<b>Form</b>	40 mM Tris pH 8.0, 110 mM NaCl, 2.2 mM KCl, 0.04% Tween-20, 20% glycerol, and 3 mM DTT.
<b>Bio-activity</b>	≥41 pmoles/min/μg
<b>Molecular Mass</b>	277 kDa
<b>Purity</b>	>56%

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<b>Applications</b>	Useful for the study of enzyme kinetics, screening inhibitors, and selectivity profiling.
<b>Storage</b>	>6 months at –80 centigrade. Avoid freeze/thaw cycles.
<b>Concentration</b>	0.07 mg/ml
<b>Full Length</b>	Full L.

## GENE INFORMATION

<b>Gene Name</b>	<a href="#">ACACB acetyl-CoA carboxylase beta [ Homo sapiens ]</a>
<b>Official Symbol</b>	<a href="#">ACACB</a>
<b>Synonyms</b>	ACACB; acetyl-CoA carboxylase beta; acetyl Coenzyme A carboxylase beta; acetyl-CoA carboxylase 2; ACC2; ACCB; acetyl CoA carboxylase 2; HACC275; ACC-beta; acetyl-Coenzyme A carboxylase beta;
<b>Gene ID</b>	<a href="#">32</a>
<b>mRNA Refseq</b>	<a href="#">NM_001093</a>
<b>Protein Refseq</b>	<a href="#">NP_001084</a>
<b>MIM</b>	<a href="#">601557</a>
<b>UniProt ID</b>	<a href="#">O00763</a>
<b>Chromosome Location</b>	12q24.1
<b>Pathway</b>	AMPK signaling, organism-specific biosystem; Adipocytokine signaling pathway,

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organism-specific biosystem; Adipocytokine signaling pathway, conserved biosystem; ChREBP activates metabolic gene expression, organism-specific biosystem; Fatty Acid Biosynthesis, organism-specific biosystem; Fatty acid biosynthesis, organism-specific biosystem; Fatty acid biosynthesis, conserved biosystem;

**Function**

ATP binding; acetyl-CoA carboxylase activity; biotin carboxylase activity; ligase activity; metal ion binding; nucleotide binding; protein binding;

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