Active Recombinant Human ACACB protein, His-tagged

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

SPECIFICATION

Product Overview	Recombinant full length Human ACACB fused with His tag at N-terminal was expressed in Insect cells.
Species	Human
Source	Insect Cells
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. 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.
Form	40 mM Tris pH 8.0, 110 mM NaCl, 2.2 mM KCl, 0.04% Tween-20, 20% glycerol, and 3 mM DTT.
Bio-activity	≥41 pmoles/min/μg
Molecular Mass	277 kDa
Purity	>56%

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

GENE INFORMATION

Gene Name	ACACB acetyl-CoA carboxylase beta [Homo sapiens]
Official Symbol	ACACB
Synonyms	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;
Gene ID	32
mRNA Refseq	NM_001093
Protein Refseq	NP_001084
MIM	601557
UniProt ID	O00763
Chromosome Location	12q24.1
Pathway	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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