

Acetyl-CoA Carboxylase Assay Kit

Acetyl-CoA Carboxylase Microplate Assay Kit

CATALOG #
AAA27886

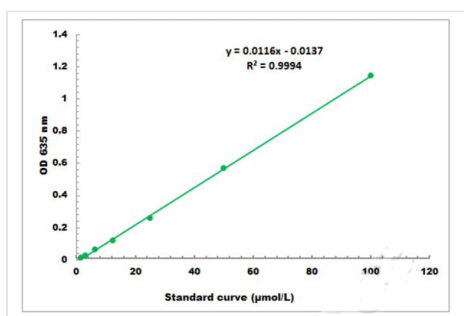
PRODUCT SYNONYMS

Acetyl-CoA Carboxylase; Acetyl-CoA Carboxylase Microplate Assay Kit; Acetyl-CoA Carboxylase assay kit

PRODUCT SPECIFICATIONS

Samples	Tissue extracts, Cell lysate, Cell culture media and Other biological fluids Samples
Detection Range	1 umol/L - 100 umol/L

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for Acetyl-CoA Carboxylase assay kit

Background: Acetyl-CoA carboxylase (ACC) is a biotin-dependent enzyme that catalyzes the irreversible carboxylation of acetyl-CoA to produce malonyl-CoA through its two catalytic activities, biotin carboxylase (BC) and carboxyltransferase (CT). ACC is a multi-subunit enzyme in most prokaryotes and in the chloroplasts of most plants and algae, whereas it is a large, multi-domain enzyme in the endoplasmic reticulum of most eukaryotes. The most important function of ACC is to provide the malonyl-CoA substrate for the biosynthesis of fatty acids. The activity of ACC can be controlled at the transcriptional level as well as by small molecule modulators and covalent modification. Acetyl-CoA carboxylase can react with acetyl-CoA and ATP, the products are malonyl-CoA, ADP and inorganic phosphorus. The Acetyl-CoA carboxylase activity will be determined by the increase of inorganic phosphorus. At the end of the reaction period, the dye reagent forms a color with released phosphate, which is measured on a plate reader 635 nm.

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/assay-kits/acetyl-coa-carboxylase/27886>