Bioworld Technology CO., Ltd.



p-ACCα (S80) Peptide

Cat No.: BS4210P

Background

Acetyl-CoA carboxylase (ACC) is a complex multifunctional enzyme system which catalyzes the carboxylation of acetyl-CoA to malonyl-CoA, the ratelimiting step in fatty acid synthesis. Exercise diminishes the activity of acetyl- CoA carboxylase in human muscle. ACC α (ACC1) is the rate-limiting enzyme in the biogenesis of long-chain fatty acids, and ACCB (ACC2) may control mitochondrial fatty acid oxidation. These two isoforms of ACC control the amount of fatty acids in the cells. The catalytic function of ACCa is regulated by phosphorylation (inactive) and dephosphorylation (active) of targeted Serine residues and by allosteric transformation by citrate or palmitoyl-CoA, which serve as the short-term regulatory mechanism of the enzyme. The gene encoding ACC α , which maps to human chromosome 17, encodes the 265 kDa a form of ACC, which is the major ACC in lipogenic tissues. The catalytic core of ACC β is homologous to that of ACCa except for an additional peptide of about 150 amino acids at the N-terminus.

Applications

Blocking

Specificity

This peptide can be used with studies using BS4210 p-ACC α (S80) pAb.

Purification & Purity

Synthetic peptide p-ACC α (S80). (Note: the amino acid sequence is proprietary). The purity is > 98%.

Product

1 mg/ml in DI water.

Storage & Stability

Store at $4 \,^{\circ}{\rm C}$ short term. Aliquot and store at $-20 \,^{\circ}{\rm C}$ long term. Avoid freeze-thaw cycles.

Research Use

For research use only, not for use in diagnostic procedure.

Swiss-Prot

Q13085