CREATIVE BIOMART®
Assay Kit

Phosphoenolpyruvate Carboxykinase (PEPCK) Activity Assay Kit

Product Information

Product Overview

Phosphoenolpyruvate carboxykinase (PEPCK, EC 4.1.1.32) is widely present in animals, plants, microorganisms, and cells. It catalyzes the conversion of oxaloacetate to phosphoenolpyruvate and is a key regulatory enzyme in gluconeogenesis.
PEPCK catalyzes oxaloacetate to phosphoenolpyruvate and CO₂. Pyruvate kinase and lactate dehydrogenase subsequently catalyze NADH oxidation to NAD⁺. The rate of NADH decrease at 340 nm reflects PEPCK activity.

Size

100t/96s

Storage

Store at -20 °C. Shelf life: 6 months.

Synonyms

PEPCK Kit

Detection method Spectrophotometer/Microplate Reader

Technical Notes

For measurements using a 96-well plate, a 96-well UV plate must be used.

Materials Required but Not Supplied

Spectrophotometer or microplate reader, benchtop centrifuge, adjustable pipettes, micro quartz cuvettes or 96-well plates, mortar, ice, distilled water.

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