CREATIVE BIOMART®
Assay Kit

Phosphoenolpyruvate Assay Kit

Product Information

Cat.No.

Kit-0674

Product Overview

Phosphoenolpyruvate Assay Kit is a quantitative colormetric/fluorometric determination of phosphoenolpyruvate.

Description

Phosphoenolpyruvate (PEP) is an important intermediate in carbohydrate metabolism. Containing a high-energy phosphate bond, PEP is involved in glycolysis and gluco- neogenesis and in the shikimate pathway as well as in carbon fixation in plants. Bacteria utilize PEP in the phosphor-transferase system used acquire sugars from the environment. In the glycolytic pathway, PEP is formed from 2-phosphoglycerate by enolase and generates ATP through the action of pyruvate kinase. Phosphoenolpyruvate Assay Kit provides a convenient colorimetric and fluorometric means to measure PEP levels. In the assay, PEP is converted to ATP and pyruvate. The generated pyruvate is quantified by colorimetric (λmax = 570 nm) or fluorometric methods (Ex/Em 535/587 nm). The assay is simple, sensitive and stable. The detection limit is approximately 1 μM PEP in biological samples.

Target Species

Mammals

Usage

For research use only (RUO)

Storage

Store kit at –20°C, protect from light. Warm the PEP Assay Buffer to room temperature prior to use. Briefly centrifuge all vials prior to opening. Read the entire protocol before performing the assay. Not included but needed: liquid N2 or dry/ice methanol, 3M HClO4, 3M KHCO3, activated charcoal.

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Kit Components

PEP Assay Buffer. Cap code: WM. 25 mlPEP Probe (in DMSO). Cap code: red. 0.2 mlPEP Converter. Cap code: purple. 1 vialPEP Developer Mix. Cap code: green. 1 vialPEP Standard (1 9mole). Cap code: yellow. 1 vial

Detection method Colorimetric, Fluorometric

Compatible Sample Types

Cell Lysate, Plasma, Plant Extract, Serum, Tissue Lysate, Urine, Plant Extract

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