

## Phosphoenolpyruvate Assay Kit

### Product Information

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**Cat.No.**

Kit-0674

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**Product Overview**

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

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**Description**

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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 ( $\lambda_{max} = 570 \text{ nm}$ ) or fluorometric methods (Ex/Em 535/587 nm). The assay is simple, sensitive and stable. The detection limit is approximately 1  $\mu\text{M}$  PEP in biological samples.

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**Target Species**

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Mammals

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**Usage**

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For research use only (RUO)

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**Storage**

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Store kit at  $-20^{\circ}\text{C}$ , 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 N<sub>2</sub> or dry/ice methanol, 3M HClO<sub>4</sub>, 3M KHCO<sub>3</sub>, activated charcoal.

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CREATIVE **BIOMART**<sup>®</sup>  
Assay Kit

## Phosphoenolpyruvate Assay Kit

### Kit Components

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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

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**Detection method** Colorimetric, Fluorometric

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### Compatible Sample Types

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

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