

## Phosphoenolpyruvate Carboxylase (PEPC) Assay Kit | PEPC assay kit

Phosphoenolpyruvate Carboxylase (PEPC) Activity Colorimetric Assay Kit

CATALOG #  
AAA332465

### PRODUCT SYNONYMS

Phosphoenolpyruvate Carboxylase (PEPC); Phosphoenolpyruvate Carboxylase (PEPC) Activity Colorimetric Assay Kit; Phosphopyruvate carboxylase; Phosphoenolpyruvic carboxylase; PHOSPHOENOLPYRUVATE CARBOXYLASE; Phosphoenolpyruvic acid cocarboxylase; Phospho(enol)pyruvate Carboxylase corn; Carboxylase; phosphopyruvate (phosphate); PEPC assay kit

### PRODUCT SPECIFICATIONS

#### Preparation and Storage

Store at -20 degree C and keep from light immediately upon receipt. Kit has a storage time of est. 6 months from receipt. Refer to list of materials supplied for storage conditions of individual components.  
Shipping: Gel pack with blue ice.

### ADDITIONAL INFORMATION

#### Related Product Information for PEPC assay kit

Principle of the Assay: The kit provides a simple method for detecting Phosphoenolpyruvate Carboxylase (PEPC) (EC 4.1.1.31) activity in a variety of biological samples such as animal tissues, plant tissues, cell culture: adherent or suspension cells, serum, plasma, bacterial. In the assay, Phosphoenolpyruvate carboxylase (PEPC) catalyzes phosphoenolpyruvate and CO<sub>2</sub> to produce oxaloacetate and HPO<sub>4</sub><sup>2-</sup>, and malate dehydrogenase further catalyzes oxaloacetate and NADH to produce malate and NAD<sup>+</sup>. The rate of NADH decrease at 340 nm can reflect Phosphoenolpyruvate carboxylase (PEPC) activity.

Background/Introduction: Phosphoenolpyruvate Carboxylase (PEPC) (EC 4.1.1.31) is widely present in animals, plants, microorganisms and cells. It is an enzyme that catalyzes the reaction of phosphoenol acetic acid with gas phase to produce oxaloacetic acid and presents an irreversible reaction. The operation of the acid cycle plays an important regulatory role.

#### Product Categories/Family for PEPC assay kit

Cell Metabolism; Biochemical Assay Kit

**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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | [contact@aaabiotech.com](mailto:contact@aaabiotech.com)  
Online datasheet: <https://stage.aaabiotech.com/assay-kits/phosphoenolpyruvate-carboxylase-pepc/332465>