

Pyruvate Kinase (PK) Assay Kit | PK assay kit

Pyruvate Kinase (PK) Colorimetric Assay Kit

CATALOG #
AAA332480

PRODUCT SYNONYMS

Pyruvate Kinase (PK); Pyruvate Kinase (PK) Colorimetric Assay Kit; PK assay kit

PRODUCT SPECIFICATIONS

Samples	Serum, Plasma, Animal and Plant Tissues, Cells, Bacteria
Features & Benefits	Determination of Pyruvate kinase (PK) activity in cells, bacteria, serum (plasma), tissue/cell lysates and other biological fluids. Kit components and procedures are simple. Sample preparation, experimental steps and result calculation are more detailed and accurate. Long shelf life.
Usage Notes	Assay kit is intended for research use only. Not for use in test procedures. Please consult the Safety Data Sheet for information regarding hazards and safe handling practices. Do not mix or substitute kit reagents or materials from other lots or vendors. Kits are QC tested as a set of components and performance cannot be guaranteed if utilized separately or substituted. Avoid foaming or bubbles when mixing or reconstituting components. Avoid cross-contamination, change pipette tips between additions of standards, samples and reagents. Also, use separate reservoirs for each reagent. Ensure all reagents and equipment are at the appropriate temperature before assay. 96-well UV microplate is needed Sample preparation and other processes need to be performed on ice, and the enzyme activity must be measured on the same day and avoid repeated freezing and thawing to prevent enzyme inactivation. LDH must be placed on ice during the measurement process. The reaction temperature has an influence on the results, so please keep it at 25 degree C(general species) or 37 degree C(mammal).
Preparation and Storage	Storage at -20 degree C and Keep from light immediately upon receipt. Kit has a storage time of 12 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 PK assay kit	Principle of the Assay: Pyruvate Kinase (PK, EC 2.7.1.40) is widely present in animals, plants, microorganisms and cultured cells, and catalyzes the last step reaction in the glycolysis process. It is one of the main rate-limiting enzymes in the glycolysis process and the key to ATP production. It is important to measure PK activity. CheKine™ Micro Pyruvate Kinase (PK) Assay Kit provides a simple method for detecting PK activity in a variety of biological samples such as Serum, Plasma, Animal Tissues, Cells and Bacteria. PK catalyzes phosphoenolpyruvate and ADP reaction into ATP and pyruvate, and lactate dehydrogenase further catalyzes the production of lactic acid and NAD⁺ by NADH and pyruvate. The rate of NADH decline at 340 nm can reflect PK activity.
Product Categories/Family for PK assay kit	Cell Metabolism

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.