CREATIVE BIOMART®
Assay Kit

Pyruvate Assay Kit II

Product Information

Cat.No. Kit-0756

Product Overview

Pyruvate Assay Kit is a quantitative colorimetric/fluorimetric pyruvate determination.

Description

PYRUVATE is a key intermediate in cellular metabolic pathways. Pyruvate can be converted to carbohydrates via gluconeogenesis, to fatty acids or energy through acetyl-CoA, to the amino acid alanine and to ethanol. Abnormal levels of pyruvate have been linked to liver diseases and metabolic disorders. Simple, direct and automation ready procedures for measuring pyruvate concentrations find wide applications in research and drug discovery. Pyruvate Assay Kit uses a single Working Reagent that combines pyruvate oxidase and hydrogen peroxide determination in one step. The color intensity of the reaction product at 570nm or fluorescence intensity at λem/ex = 585/530nm is directly proportional to pyruvate concentration in the sample.

Applications

Direct Assays: pyruvate in biological samples.Drug Discovery/Pharmacology: effects of drugs on pyruvate metabolism.

Usage

For research use only (RUO)

Storage

The kit is shipped on dry ice. Store all reagents at -20°C. Shelf life of three months after receipt.

Kit Components

Enzyme Mix 10 mLDye Reagent 120 µLStandard 400 µL 25 mM Pyruvate

Detection method Colorimetric, Fluorometric

Compatible Sample Types

Biological Sample

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Features & Benefits

Sensitive and accurate. Use as little as 10 µL samples. Linear detection range in 96-well plate: 2 to 500 µM (17 µg/dL to 4.4 mg/dL) pyruvate for colorimetric assays and 0.2 to 50 µM for fluorimetric assays.Simple and convenient. The procedure involves addition of a single working reagent and incubation for 30 min at room temperature, compatible for HTS assays.Improved reagent stability. The optimized formulation has greatly enhanced the reagent and signal stability.

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