CREATIVE BIOMART®
Assay Kit

Pyruvate Assay Kit

Product Information

Cat.No. Kit-0755

Product Overview

Pyruvate Assay Kit is used for measuring pyruvate concentration.

Description

Pyruvate is a central molecule in metabolism through which sugars enter the citric acid cycle. Pyruvate can be converted to carbohydrates during gluconeogenesis or to fatty acids via acetyl CoA. High levels of pyruvate are associated with liver disease and genetic disorders. Pyruvate has also been used to stimulate metabolism leading to loss of body weight. We provides a simple, direct and automation-ready procedure for measuring pyruvate concentration in various biological samples such as blood, cells, culture and fermentation media, etc. In the assay, pyruvate is oxidized by pyruvate oxidase via enzyme reactions to generate color (OD 570 nm) and fluorescence (Ex/Em = 535/587 nm). Since the color or fluorescence intensity is proportional to pyruvate content, the pyruvate concentration can be accurately measured. The kit detects 1 μM to 10 mM pyruvate.

Applications

Measurement of pyruvate in various tissues/cells/serum/saliva etc.Analysis of metabolism in various cells

Target Species

Mammals

Usage

For research use only (RUO)

Storage

Store the kit at -20°C, protected from light. Briefly centrifuge small vials prior to opening. Read entire protocol before performing the assay.

Kit Components

Pyruvate Assay Buffer 25 mLPyruvate Probe (in DMSO) 200 μLPyruvate Enzyme Mix

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CREATIVE BIOMART®
Assay Kit

Pyruvate Assay Kit

LyophilizedPyruvate Standard (100 nmol/μL) 100 μL
Detection method Colorimetric, Fluorometric
Compatible Sample Types
Biological Fluid, Cell Culture Supernatant, Plasma, Serum, Tissue Culture Supernatant

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