CREATIVE BIOMART®
Assay Kit

Pyruvate Dehydrogenase (PDH) Activity Colorimetric Assay Kit

Product Information

Cat

Kit-2301

Cat.No. Kit-2301

Product Overview

Pyruvate Dehydrogenase (PDH) (EC 1.2.4.1) has a vital role in carbohydrate metabolism. It forms a well-characterized enzyme complex with dihydrolipoyl transacetylase (E2) and dihydrolipoyl dehydrogenase (E3). PDH converts pyruvate into acetyl-CoA in the presence of NAD and CoA, and links glycolysis to the citric acid cycle. PDH activity is inhibited by high intracellular ratios of ATP/ADP, NADH/NAD or Acetyl-CoA/CoA. In humans, PDH deficiency reduces mitochondrial function and is linked to neurodegenerative diseases. PDH deficiency is X-linked; it results in 2 forms of abnormality: a metabolic form (lactic acidosis) and a neurological form (seizure and/or neuropathological spasm). Recent studies show that PDH is a target of oncogene-induced senescence; activation of PDH enhances pyruvate utilization and increases respiration and redox stress. PDH assay kit provides a quick and easy way for monitoring PDH activity in various samples. In the assay, PDH converts pyruvate into an intermediate, which reduces the developer to a colored product with strong absorbance at 450 nm. The assay is simple, sensitive and can detect pyruvate dehydrogenase activity lower than 0.1 mU in a variety of samples.

Applications

Measurement of pyruvate dehydrogenase activity in various tissues/cellsAnalysis of cell signaling pathway

Storage

-20°C

Shipping

Gel Pack

Size

Tel: 1-631-559-9269 1-516-512-3133
Email:info@creative-biomart.org
Fax:1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

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Assay Kit

Pyruvate Dehydrogenase (PDH) Activity Colorimetric Assay Kit

100 assays

Kit Components

PDH Assay Buffer; PDH Substrate (Lyophilized); PDH Developer (Lyophilized); NADH Standard (Lyophilized); PDH Positive Control

Detection method Absorbance (450 nm)

Features & Benefits

Simple, rapid & convenient; can measure pyruvate dehydrogenase activity lower than 0.1 mU in a variety of samples.

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