CREATIVE BIOMART®
Assay Kit

GPD Activity Colorimetric Assay Kit

Product Information

Cat.No. Kit-0386

Product Overview

GPD Activity Assay Kit (Colorimetric) is used for measuring glycerol-3-phosphate Dehydrogenase activity using colorimetric methods.

Description

Glycerol-3-Phosphate Dehydrogenase (EC 1.1.1.8) is an important enzyme for lipid metabolism. It catalyzes the reversible conversion between dihydroxyacetone phosphate and glycerol-3-phosphate. GPDH plays multiple functions inside cells; it links carbohydrate and lipid metabolism, and provides electrons through the Glycerol-3-Phosphate Shuttle. When progenitor adipocytes differentiate into mature adipocytes, GPDH activity increases significantly. Analysis of glycerol-3-phosphate dehydrogenase activity is crucial for the study of fatty acid metabolic pathways. In GPD Activity Assay Kit (Colorimetric), Glycerol-3-phosphate dehydrogenase reacts with the substrate to forms an intermediate, which reduces a colorless probe to a colored product with strong absorbance at 450 nm. The assay is simple, sensitive and rapid and can detect Glycerol-3-Phosphate dehydrogenase activity less than 1 mU/well.

Applications

Measurement of Glycerol-3-Phosphate Dehydrogenase activity in various tissues/cellsAnalysis of fatty acid metabolism and cell signalingScreening anti-obesity drugs

Usage

For research use only (RUO)

Storage

Store kit at –20°C, protected from light. Warm GPDH Assay Buffer to room temperature before use. Briefly centrifuge small vials prior to opening.

Kit Components

GPDH Assay Buffer 27 mlGPDH Substrate (Lyophilized) 1 vialGPDH Probe (Lyophilized) 1 vialNADH

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Standard (Lyophilized) 1 vialGPDH Positive Control (Lyophilized) 1 vial

Detection method Colorimetric

Compatible Sample Types

Cell culture, Tissue samples

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