

## 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/cells  
Analysis of fatty acid metabolism and cell signaling  
Screening 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

Tel: 1-631-559-9269 1-516-512-3133

Fax: 1-631-938-8127

Email: [info@creative-biomart.org](mailto:info@creative-biomart.org)

45-1 Ramsey Road, Shirley, NY 11967, USA



## GPD Activity Colorimetric Assay Kit

GPDH Assay Buffer 27 mlGPDH Substrate (Lyophilized) 1 vialGPDH Probe (Lyophilized) 1 vialNADH Standard (Lyophilized) 1 vialGPDH Positive Control (Lyophilized) 1 vial

**Detection method** Colorimetric

**Compatible Sample Types**

Cell culture, Tissue samples

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