

GPD Activity Colorimetric Assay Kit

Cat. No. Kit-0386 **Lot. No.** (See product label)

SPECIFICATION

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.

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Kit Components	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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