

## Glutathione Reductase Assay Kit

### Product Information

#### Cat.No.

Kit-0391

#### Product Overview

Glutathione Reductase Assay Kit is used for measuring GR activity.

#### Description

Glutathione Reductase (GR, EC 1.8.1.7) catalyzes the NADPH-dependent reduction of oxidized glutathione (GSSG) to reduced glutathione (GSH), which plays an important role in the GSH redox cycle that maintains adequate levels of reduced GSH. A high GSH/GSSG ratio is essential for protection against oxidative stress. The Glutathione Reductase Assay Kit is a highly sensitive, simple, direct and HTS-ready colorimetric assay for measuring GR activity in biological samples. In the assay, GR reduces GSSG to GSH, which reacts with 5, 5'-Dithiobis (2-nitrobenzoic acid) (DTNB) to generate TNB<sup>2-</sup> (yellow color,  $\lambda_{max} = 405 \text{ nm}$ ). The assay can detect 0.1-40 mU/ml GR in various samples.

#### Target Species

Mammals

#### Usage

For research use only (RUO)

#### Storage

Store kit at  $-20^{\circ}\text{C}$ , protect from light. Warm Assay Buffer to room temperature before use. Briefly centrifuge vials before opening. Read the entire protocol before performing the assay.

#### Kit Components

GR Assay Buffer 100 ml 3% H<sub>2</sub>O<sub>2</sub> 1 ml Catalase (lyophilized) 1 vial TNB Standard (lyophilized) 1 vial DTNB (lyophilized) 1 vial NADPH-GNERAT (lyophilized) 2 vials GSSG (lyophilized) 1 vial GR Positive Control (10 mU; lyophilized) 1 vial

**Detection method** Colorimetric

#### Compatible Sample Types



CREATIVE **BIOMART**<sup>®</sup>  
Assay Kit

## Glutathione Reductase Assay Kit

Biological Fluid, Cell Culture Supernatant, Erythrocyte Lysate, Plasma, Serum, Tissue Culture Supernatant, Urine

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