

Glutathione Reductase Assay Kit

Cat. No. Kit-0391 **Lot. No.** (See product label)

SPECIFICATION

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 ²⁻ (yellow color, λ_{max} = 405 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°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 ₂ O ₂ 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

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

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

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

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