

Glutathione Reductase Activity Assay kit

GR is a flavoprotein oxidoreductase widely present in eukaryotes and prokaryotes, and is one of the key enzymes in the glutathione redox cycle (usually GR is replaced by TrxR in insects). GR catalyzes NADPH to reduce GSSG to produce GSH, which helps maintain the ratio of GSH/GSSG in the body. GR plays a key role in the elimination of reactive oxygen species in the oxidative stress response. In addition, GR also participates in the ascorbic acid-glutathione cycle pathway.

GR can catalyze NADPH to reduce GSSG to regenerate GSH, while continuously consuming NADPH to generate NADP⁺; NADPH has a characteristic absorption peak at 340nm, on the contrary, NADP⁺ has no absorption peak at this wavelength; by measuring the rate of decrease in absorbance at 340nm, the rate of NADPH dehydrogenation is determined. Thus the GR activity is calculated.

Catalog No.	250116
Size	50 Assays / 100 Assays
Product Category	Colorimetric Assay
Detection Method	Spectrophotometry / Micro-Plate Reader
Storage/Stability	2 ~ 8°C/1 year
Shipping	Gel Packs