

Glutathione Reductases (GR) Assay Kit | GR assay kit

CheKine™ Glutathione Reductases (GR) Colorimetric Assay Kit

CATALOG #
AAA332459

PRODUCT SYNONYMS

Glutathione Reductases (GR); CheKine™ Glutathione Reductases (GR) Colorimetric Assay Kit; GR assay kit

PRODUCT SPECIFICATIONS

Sequence Length	484
Preparation and Storage	Storage at -20 degree C and keep from light immediately upon receipt. Kit has a storage time of 12 months from receipt. Refer to list of materials supplied for storage conditions of individual components. Shipping: Ice packs

ADDITIONAL INFORMATION

Related Product Information for GR assay kit	Principle of the Assay: GR can catalyze the reduction of NADPH to GSSG to regenerate GSH, and NADPH dehydrogenates to produce NADP⁺; NADPH has a characteristic absorption peak at 340 nm, while NADP⁺ has no absorption peak at this wavelength; NADPH dehydrogenation rate is determined by measuring the decrease rate of absorbance at 340 nm to calculate GR activity. Background/Introduction: GR is a flavin protein redox enzyme widely present in eukaryotes and prokaryotes. GR catalyzes the reduction of GSSG to GSH. It is one of the key enzymes in the glutathione redox cycle (generally GR is replaced by TrxR in insects). GR catalyzes the reduction of GSSG by NADPH to GSH, which helps maintain the GSH / GSSG ratio in the body. GR plays a key role in scavenging reactive oxygen species in response to oxidative stress, and GR is also involved in the ascorbate-glutathione cycle pathway.
Product Categories/Family for GR assay kit	Cell Metabolism

NCBI AND UNIPROT INFORMATION

NCBI GI #	54035975
UniProt Accession #	Q6HA23
NCBI Official Full Name	Glutathione reductase
UniProt Protein Name	Glutathione reductase
UniProt Gene Name	GLR1
UniProt Synonym Gene Names	GR; GRase
UniProt Entry Name	GSHR_KLULA

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.