

Datasheet for ABIN1570137

Glutathione Reductase ELISA Kit



Sensitivity:



Overview	
Quantity:	96 tests
Target:	Glutathione Reductase (GSR)
Reactivity:	Rat
Method Type:	Sandwich ELISA
Detection Range:	0.156 ng/mL - 10 ng/mL
Minimum Detection Limit:	0.156 ng/mL
Application:	ELISA
Product Details	
Purpose:	The kit is a sandwich enzyme immunoassay for the in vitro quantitative measurement of GR in rat serum, plasma, tissue homogenates and other biological fluids.
Sample Type:	Plasma, Serum, Tissue Homogenate
Analytical Method:	Quantitative
Detection Method:	Colorimetric
Specificity:	This assay has high sensitivity and excellent specificity for detection of this index.
Cross-Reactivity (Details):	No significant cross-reactivity or interference between this index and analogues was observed. Note: Limited by current skills and knowledge, it is impossible for us to complete the cross-reactivity detection between this index and all the analogues, therefore, cross reaction may still

exist.

0.066 ng/mL

Product Details

Components:

- · Pre-coated, ready to use 96-well strip plate
- · Standard (freeze dried)
- · Standard Diluent
- · Detection Reagent A
- · Detection Reagent B
- · Assay Diluent A
- · Assay Diluent B
- TMB
- · Stop Solution
- Wash Buffer (30X)
- Plate sealer for 96 wells
- · Instruction manual

Material not included:

- 1. Microplate reader with 450 \pm 10nm filter.
- 2. Precision single or multi-channel pipettes and disposable tips.
- 3. Eppendorf Tubes for diluting samples.
- 4. Deionized or distilled water.
- 5. Absorbent paper for blotting the microtiter plate.
- 6. Container for Wash Solution.

Target Details

Target:	Glutathione Reductase (GSR)
Alternative Name:	Glutathione Reductase (GR) (GSR Products)
Background:	Alternative name: GSR, GLUR, GRD1, Glutathione reductase, mitochondrial
Gene ID:	116686
UniProt:	F1LRE1
Pathways:	Thyroid Hormone Synthesis, Cell RedoxHomeostasis

Application Details

Sample Volume:	100 μL
Assay Time:	1 - 4.5 h
Plate:	Pre-coated
Protocol:	1. Prepare all reagents, samples and standards 2. Add 100µL standard or sample to each well. Incubate 2 hours at 37°C
	3. Aspirate and add 100µL prepared Detection Reagent A. Incubate 1 hour at 37°C

Storage Comment:	The Assay Plate, Standard, Detection Reagent A and Detection Reagent B should be stored at -
Storage:	4 °C,-20 °C
	experimenter from the beginning to the end.
Handling Advice.	regulated. It is also strongly suggested that the whole assay is performed by the same
	especially room temperature, air humidity and incubator temperatures should be strictly
	unnecessary influences on the performance, operation procedures and lab conditions,
	than 5 % within the expiration date under appropriate storage conditions. Note: To minimize
Handling Advice:	The stability of ELISA kit is determined by the loss rate of activity. The loss rate of this kit is less
	clothing protection when using this material.
Precaution of Use:	The Stop Solution suggested for use with this kit is an acid solution. Wear eye, hand, face, and
Handling	
Restrictions:	For Research Use only
	• Inter-assay: CV<12%
Assay Precision:	 CV(%) = SD/meanx 100 Intra-assay: CV&lt10%
	the index were tested on 3 different plates, 8 replicates in each plate. • CV(%) = SD/meanX100
	Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level
	the index were tested 20 times on one plate, respectively.
Assay Precision:	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level
	the samples is then determined by comparing the O.D. of the samples to the standard curve.
Assay Procedure:	spectrophotometrically at a wavelength of 450nm ± 10nm. The concentration of the index in
	terminated by the addition of sulphuric acid solution and the color change is measured
	and enzyme-conjugated Avidin will exhibit a change in color. The enzyme-substrate reaction is
	substrate solution is added, only those wells that contain the index, biotin-conjugated antibody
	Horseradish Peroxidase (HRP) is added to each microplate well and incubated. After TMB
	index. Standards or samples are then added to the appropriate microtiter plate wells with a biotin-conjugated antibody preparation specific to the index. Next, Avidin conjugated to
	The microtiter plate provided in this kit has been pre-coated with an antibody specific to the
A D I	
	8. Add 50µL Stop Solution. Read at 450nm immediately.
	6. Aspirate and wash 5 times 7. Add 90µL Substrate Solution. Incubate 15-25 minutes at 37°C
	5. Add 100µL prepared Detection Reagent B. Incubate 1 hour at 37°C
	F. Add 100ul propored Detection Descript D. Insulpate 1 hour at 27°C

20°C upon being received. After receiving the kit, Substrate should be always stored at 4°C.Other reagents are kept according to the labels on vials. But for long term storage, please keep the whole kit at -20°C. The unused strips should be kept in a sealed bag with the desiccant provided to minimize exposure to damp air. The test kit may be used throughout the expiration date of the kit (six months from the date of manufacture). Opened test kits will remain stable until the expiring date shown, provided it is stored as prescribed above.

Expiry Date:

12 months

Images

12 10 8 8 6 0 0 0.5 1 1.5 2 2.5 3 3.5 Optical Density

ELISA

Image 1.