

Human Glutathione Reductase (GR) ELISA Kit | GR elisa kit

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CATALOG #
AAA22997

REACTIVITY
Human

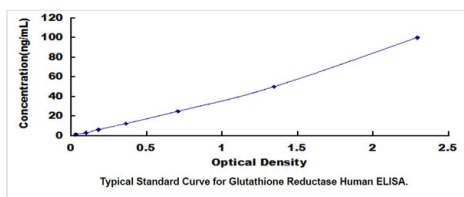
PRODUCT SYNONYMS

Glutathione Reductase (GR); Human Glutathione Reductase (GR) ELISA Kit; GSR; GLUR; GRD1; Glutathione reductase; mitochondrial; GR elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	This assay has high sensitivity and excellent specificity for detection of glutathione reductase. No significant cross-reactivity or interference between glutathione reductase and analogues was observed.
Sequence Length	565
Samples	Human tissue homogenates, cell lysates, cell culture supernates and other biological fluids
Detection Range	1.56-100ng/mL
Sensitivity	< 0.60ng/mL
Intra-assay Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level glutathione reductase were tested 20 times on one plate, respectively. Intra-Assay: CV<10%
Inter-assay Precision	Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level glutathione reductase were tested on 3 different plates, 8 replicates in each plate. CV(%) = SD/meanX100. Inter-Assay: CV<12%
Preparation and Storage	The stability of kit is determined by the loss rate of activity. The loss rate of this kit is less than 5% within the expiration date under appropriate storage condition. To minimize extra influence on the performance, operation procedures and lab conditions, especially room temperature, air humidity, incubator temperature should be strictly controlled. It is also strongly suggested that the whole assay is performed by the same operator from the beginning to the end.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for GR elisa kit

Principle of the Assay: The microplate provided in this kit has been pre-coated with an antibody specific to glutathione reductase. Standards or samples are then added to the appropriate microplate wells with a biotin-conjugated antibody specific to glutathione reductase. Next, Avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. After TMB substrate solution is added, only those wells that contain glutathione reductase, biotin-conjugated antibody and enzyme-conjugated Avidin will exhibit a change in color. The enzyme-substrate reaction is terminated by the addition of sulphuric acid solution and the color change is measured spectrophotometrically at a wavelength of 450nm $\pm$ 10nm. The concentration of glutathione reductase in the samples is then determined by comparing the O.D. of the samples to the standard curve.

References	Antioxidant Defense Expressed as Glutathione Status and Keap1-Nrf2 System Action in Relation to Anthropometric Parameters and Body Composition in Young Women with Polycystic Ovary Syndrome; Antioxidants (Basel); 2023 Mar 16;12(3):730.; PMID: 36978978; Magdalena Chełchowska; Department of Screening Tests and Metabolic Diagnostics, Institute of Mother and Child, Kasprzaka 17a, 01-21Warsaw, Poland.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	15232559
NCBI GeneID	824631
NCBI Accession #	NP_191026.1
NCBI GenBank Nucleotide #	NM_115323.4
UniProt Accession #	Q5FV38
Molecular Weight	60,852 Da
NCBI Official Full Name	glutathione reductase
NCBI Official Symbol	GR
NCBI Official Synonym Symbols	ATGR2; EMB2360; glutathione reductase
NCBI Protein Information	glutathione reductase
UniProt Protein Name	At3g54660

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.

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 Online datasheet: <https://stage.aaabiotech.com/human-elisa-kits/glutathione-reductase-gr/22997>