

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

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CATALOG #
AAA13993

REACTIVITY
Human

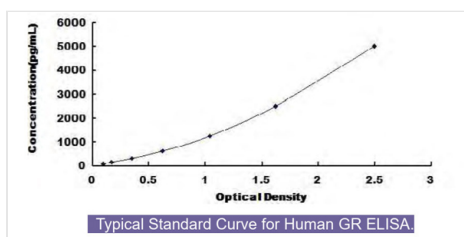
PRODUCT SYNONYMS

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 GR. No significant cross-reactivity or interference between GR and analogues was observed.
Sequence Length	522
Assay Type	Quantitative Sandwich
Samples	Human serum, plasma, tissue homogenates, cell lysates or other biological fluids
Detection Range	78.1-5000pg/mL
Sensitivity	< 35pg/mL
Intra-assay Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level GR 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 GR were tested on 3 different plates, 8 replicates in each plate. CV(%) = SD/meanX100. Inter-Assay: CV<12%
Preparation and Storage	For unopened kit, all reagents should be kept according to the labels on vials. The TMB Substrate, Wash Buffer, Stop Solution should be stored at 4 degree C. All others should be stored at -20 degree C.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for GR elisa kit	Principle of the Assay: The microtiter plate provided in this kit has been pre-coated with an antibody specific to GR. Standards or samples are then added to the appropriate microtiter plate wells with a biotin-conjugated antibody preparation specific to GR. 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 GR, 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 ± 10nm. The concentration of GR in the samples is then determined by comparing the O.D. of the samples to the standard curve. Intended Uses: The kit is a sandwich enzyme immunoassay for the in vitro quantitative measurement of GR in human serum, plasma, tissue homogenates, cell lysates or other biological fluids.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	50301238
NCBI GeneID	2936
NCBI Accession #	NP_000628.2
NCBI GenBank Nucleotide #	NM_000637.3
UniProt Accession #	P00390; Q7Z5C9; Q9NP63; C8KIL8; C8KIL9; C8KIM0; D3DSV3
Molecular Weight	47,267 Da
NCBI Official Full Name	glutathione reductase, mitochondrial isoform 1
NCBI Official Synonym Full Names	glutathione-disulfide reductase
NCBI Official Symbol	GSR
NCBI Official Synonym Symbols	HEL-75; HEL-S-122m
NCBI Protein Information	glutathione reductase, mitochondrial
UniProt Protein Name	Glutathione reductase, mitochondrial
UniProt Gene Name	GSR
UniProt Synonym Gene Names	GLUR; GRD1; GR; GRase

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/13993>