

Human Glyoxalase I (GLO1) ELISA Kit | GLO1 elisa kit

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CATALOG #
AAA20542

REACTIVITY
Human

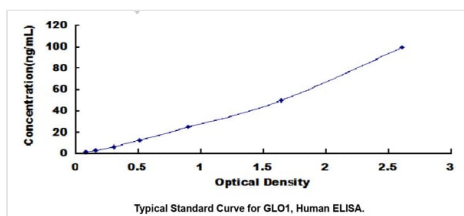
PRODUCT SYNONYMS

Glyoxalase I (GLO1); Human Glyoxalase I (GLO1) ELISA Kit; GLY-I; GLOD1; Glyoxalase Domain Containing 1; Lactoylglutathione lyase; Aldoketomutase; Ketone-aldehyde mutase; Methylglyoxalase; S-D-lactoylglutathione methylglyoxal lyase; GLO1 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	This assay has high sensitivity and excellent specificity for detection of GLO1. No significant cross-reactivity or interference between GLO1 and analogues was observed.
Sequence Length	169
Assay Type	Quantitative Sandwich
Samples	Human tissue homogenates, cell lysates and other biological fluids
Detection Range	1.56-100ng/mL
Sensitivity	< 0.59ng/mL
Intra-assay Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level GLO1 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 GLO1 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 GLO1 elisa kit	Principle of the Assay: The microplate provided in this kit has been pre-coated with an antibody specific to GLO1. Standards or samples are then added to the appropriate microplate wells with a biotin-conjugated antibody specific to GLO1. 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 GLO1, 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 GLO1 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 in vitro quantitative measurement of GLO1 in human tissue homogenates, cell lysates and other biological fluids.
Product Categories/Family for GLO1 elisa kit	Enzyme & Kinase
References	Elevated plasma level of the glycolysis byproduct methylglyoxal on admission is an independent biomarker of mortality in ICU COVID-19 patients; Sci Rep; 2022 Jun 9;12(1):9510.; PMID: 35680931; Fadhel A Alomar; Department of Pharmacology and Toxicology, College of Clinical Pharmacy, Imam Abdulrahman Bin Faisal University, P. O. Box 1982, Dammam, 31441, Saudi Arabia. falomar@iau.edu.sa.

NCBI AND UNIPROT INFORMATION

NCBI GI #	1881782
NCBI GeneID	2739
UniProt Accession #	Q04760; P78375; Q59EL0; Q5TZW3; Q96FC0; Q96J41; B2R6P7; B4DDV0
Molecular Weight	19,043 Da
NCBI Official Full Name	glyoxalase I
NCBI Official Synonym Full Names	glyoxalase I
NCBI Official Symbol	GLO1
NCBI Official Synonym Symbols	GLYI; GLOD1; HEL-S-74
NCBI Protein Information	lactoylglutathione lyase
UniProt Protein Name	Lactoylglutathione lyase
UniProt Gene Name	GLO1
UniProt Synonym Gene Names	Glx I
UniProt Entry Name	LGUL_HUMAN

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.