

Rat Glutamate Cysteine Ligase, Modifier Subunit ELISA Kit | GCLM elisa kit

Rat Glutamate Cysteine Ligase, Modifier Subunit ELISA Kit

CATALOG #
AAA85009

REACTIVITY
Rat

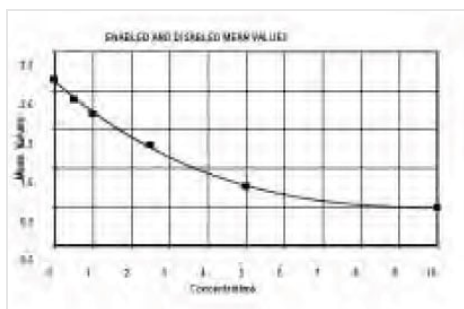
PRODUCT SYNONYMS

Glutamate Cysteine Ligase; Modifier Subunit; Rat Glutamate Cysteine Ligase; Modifier Subunit ELISA Kit; GCLM elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Rat
Samples	Cell culture fluid, body fluid, tissue homogenate, serum and blood plasma
Preparation and Storage	Store all reagents at 2-8 degree C.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for GCLM elisa kit

For Samples: Cell culture fluid, body fluid, tissue homogenate, serum and blood plasma

Intended Uses: This GCLM ELISA kit is intended for laboratory research use only. The stop solution changes the color from blue to yellow and the intensity of the color is measured at 450 nm using a spectrophotometer. In order to measure the concentration of GCLM in the sample, this GCLM ELISA Kit includes a set of calibration standards. The calibration standards are assayed at the same time as the samples and allow the operator to produce a standard curve of Optical Density versus GCLM concentration. The concentration of in the samples is then determined by comparing the O.D. of the samples to the standard curve.

Principle of the Assay: The coated well immunoenzymatic assay for the quantitative measurement of GCLM utilizes a monoclonal anti-GCLM antibody and an GCLM-HRP conjugate. The assay sample and buffer are incubated together with GCLM-HRP conjugate in pre-coated plate for one hour. After the incubation period, the wells are decanted and washed five times. The wells are then incubated with a substrate for HRP enzyme. The product of the enzyme-substrate reaction forms a blue colored complex. Finally, a stop solution is added to stop the reaction, which will then turn the solution yellow. The intensity of color is measured spectrophotometrically at 450nm in a microplate reader. The intensity of the color is inversely proportional to the GCLM concentration since GCLM from samples and GCLM-HRP conjugate compete for the anti-GCLM antibody binding site. Since the number of sites is limited, as more sites are occupied by GCLM from the sample, fewer sites are left to bind GCLM-HRP conjugate. Standards of known GCLM concentrations are run concurrently with the samples being assayed and a standard curve is plotted relating the intensity of the color (Optical Density) to the concentration of GCLM. The GCLM concentration in each sample is interpolated from this standard curve.

NCBI AND UNIPROT INFORMATION

NCBI GI #	49456623
NCBI GeneID	2730
UniProt Accession #	P48507; Q6FHC1; Q9NPX9; Q9NU74; A8K334; D3DT45
Molecular Weight	30,727 Da
NCBI Official Full Name	GCLM, partial
NCBI Official Synonym Full Names	glutamate-cysteine ligase, modifier subunit
NCBI Official Symbol	GCLM
NCBI Official Synonym Symbols	GLCLR
NCBI Protein Information	glutamate--cysteine ligase regulatory subunit; GCS light chain; GSC light chain; gamma-ECS regulatory subunit; glutamate--cysteine ligase modifier subunit; glutamate-cysteine ligase regulatory protein; gamma-glutamylcysteine synthetase regulatory subunit; glutamate-cysteine ligase modifier subunit delta2 alternative splicing; glutamate-cysteine ligase (gamma-glutamylcysteine synthetase), regulatory (30.8kD)
UniProt Protein Name	Glutamate--cysteine ligase regulatory subunit
UniProt Gene Name	GCLM
UniProt Synonym Gene Names	GLCLR
UniProt Entry Name	GSH0_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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/gclm-rat-elisa-kits/glutamate-cysteine-ligase-modifier-subunit/85009>