

gamma-Glutamyl Cysteine Ligase (GCL) Assay Kit | GCL assay kit

gamma-Glutamyl Cysteine Ligase (GCL) Activity Colorimetric Assay Kit

CATALOG #
AAA31530

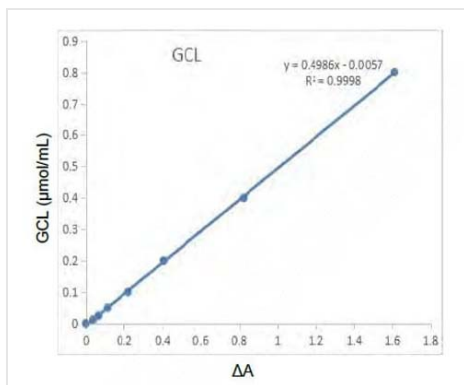
PRODUCT SYNONYMS

gamma-Glutamyl Cysteine Ligase (GCL); gamma-Glutamyl Cysteine Ligase (GCL) Activity Colorimetric Assay Kit; GCL assay kit

PRODUCT SPECIFICATIONS

Samples	Serum, Plasma, Animal and Plant Tissues, Cells, Bacteria, Fungus
Detection Range	0.0125-0.8 umol/mL (0.0675-4.32 U/g)
Sensitivity	0.0125 umol/mL (0.0675 U/g)
Application Notes	The kit provides a simple method for detecting GCL activity in a variety of biological samples such as tissues, cell, serum, bacterial. In the assay, In the presence of ATP and Mg ²⁺ , GCL catalyzes the synthesis of gamma-glutamylcysteine from glutamic acid and cysteine; at the same time, ATP dephosphorylation produces inorganic phosphorus molecules. GCL activity can be calculated by measuring the increase rate of inorganic phosphorus.
Preparation and Storage	Store at -20 degree C and protected from light upon receipt. Kit has a storage time of est. 6 months from receipt. Shipping: Gel pack with blue ice.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for GCL assay kit	Principle of the Assay: gamma-Glutamyl Cysteine Ligase (GCL) is the rate-limiting enzyme for GSH synthesis, and GSH has a feedback inhibitory effect on GCL. GCL gene expression is regulated by many factors, such as oxidants, antioxidants, growth factors and inflammatory factors. The level of GCL activity has an important influence on the GSH content and the GSH/GSSG ratio. CheKine™ Micro gamma-Glutamyl Cysteine Ligase (GCL) Activity Assay Kit provides a convenient tool for detection of GCL. The principle is that in the presence of ATP and Mg ²⁺ , GCL catalyzes the synthesis of gamma-glutamyl cysteine from glutamic acid and cysteine; at the same time, ATP dephosphorylation produces inorganic phosphorus molecules. GCL activity can be calculated by measuring the increase rate of inorganic phosphorus.
Product Categories/Family for GCL assay kit	Cell Metabolism; Biochemical Assay Kit

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://www.aaabiotech.com/assay-kits/gamma-glutamyl-cysteine-ligase-gcl/31530>