

General Glutaminase Assay Kit | GLS2 assay kit

Glutaminase Microplate Assay Kit

CATALOG # AAA27837	REACTIVITY General	APPLICATIONS Functional Assay
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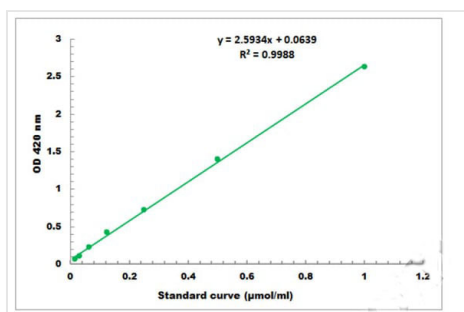
PRODUCT SYNONYMS

Glutaminase; Glutaminase Microplate Assay Kit; EC 3.5.1.2; L-glutamine amidohydrolase; GLS2 assay kit

PRODUCT SPECIFICATIONS

Reactivity	General
Sequence Length	263
Samples	Tissue extracts, Cell lysate Samples
Detection Range	0.01 mmol/L - 1 mmol/L
Applicable Applications for GLS2 assay kit	FA (Functional Assay)
Preparation and Storage	Shipped and store at 4 degree C for 6 months.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for GLS2 assay kit

Background: Glutaminase (glutamine aminohydrolase or GLS) catalyzes the following reaction: Glutamine + H₂O → Glutamate + NH₃. The enzyme has tissue-specific roles in multiple organs. Two different mammalian phosphate-activated GLS isoforms are known: GLS1 (kidney-type) and GLS2 (liver-type; a target of the tumor suppressor protein p53). The hydrolytic activity of glutaminase generates ammonia for urea synthesis in the liver similar to that mediated by glutamate dehydrogenase. During renal acidosis, glutaminase is induced in the kidney, leading to increased excretion of ammonia, which plays an important role in maintaining acid-base homeostasis. Glutaminase regulates the levels of the neurotransmitter glutamate in the brain. The rate of glutaminolysis is known to increase in tumors and may be a hot spot for regulation of cancer cell metabolism. Inhibitors of GLS may therefore be candidate drugs for cancer therapy. Glutaminase Microplate Assay Kit is a sensitive assay for determining glutaminase activity in various samples. The assay is initiated with the enzymatic hydrolysis of glutamine by GLS. The enzyme catalysed reaction products can be measured at a colorimetric readout at 420 nm.

NCBI AND UNIPROT INFORMATION

NCBI GI #	6650608
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NCBI GeneID	27165
Molecular Weight	23,055 Da
NCBI Official Full Name	glutaminase
NCBI Official Synonym Full Names	glutaminase 2
NCBI Official Symbol	GLS2
NCBI Official Synonym Symbols	GA; GLS; LGA; hLGA
NCBI Protein Information	glutaminase liver isoform, mitochondrial
UniProt Protein Name	Glutaminase liver isoform, mitochondrial
UniProt Gene Name	GLS2
UniProt Synonym Gene Names	GA; GLS
UniProt Entry Name	GLSL_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.

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Online datasheet: <https://www.aaabiotech.com/general-assay-kits/glutaminase/27837>