

## Datasheet for ABIN5654682 **GLN1 CLIA Kit**



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### Overview

Quantity: 96 tests

Target: GLN1

Reactivity: Mouse

Method Type: Sandwich ELISA

Detection Range: 3.12 pg/mL - 200 pg/mL

Minimum Detection Limit: 3.12 pg/mL

Application: ELISA

### Product Details

Sample Type: Cerebrospinal Fluid, Plasma, Serum

Analytical Method: Quantitative

Detection Method: Chemiluminescent

Specificity: This assay has high sensitivity and excellent specificity for detection of Glutamine synthetase (GS). No significant cross-reactivity or interference between Glutamine synthetase (GS) and analogues was observed.

Sensitivity: 0.11 pg/mL

### Target Details

Target: GLN1

Alternative Name: Glutamine synthetase ([GLN1 Products](#))

## Target Details

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| Background: | Gene Name: Glutamine synthetase<br>Gene Aliases: GLNS, GLUL, Glutamate-Ammonia Ligase, Glutamate decarboxylase |
| Gene ID:    | 14645  |
| UniProt:    | <a href="#">P15105</a>   |
| Pathways:   | <a href="#">Positive Regulation of Peptide Hormone Secretion</a>   |

## Application Details

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| Comment:         | 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.  |
| Assay Time:      | 2 - 3 h   |
| Plate:           | Pre-coated  |
| Protocol:        | The microplate provided in this kit has been pre-coated with an antibody specific to Glutamine synthetase (GS). Standards or samples are then added to the appropriate microplate wells with a biotin-conjugated antibody specific to Glutamine synthetase (GS). Next, Avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. Then the mixture of substrate A and B is added to generate glow light emission kinetics. Upon plate development, the intensity of the emitted light is proportional to the Glutamine synthetase (GS) level in the sample or standard., |
| Assay Precision: | Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level Glutamine synthetase (GS) were tested 20 times on one plate, respectively<br>Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level Glutamine synthetase (GS) were tested on 3 different plates, 8 replicates in each plate. $CV(\%) = \frac{SD}{mean} \times 100$<br>Intra-Assay: $CV < 10\%$<br>Inter-Assay: $CV < 12\%$  |
| Restrictions:    | For Research Use only   |

## Handling

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| Handling Advice: | Do not allow to contact skin or eyes. Calibrators, controls and specimen samples should be |
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## Handling

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assayed in duplicate. Once the procedure has been started, all steps should be completed without interruption.

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Storage: 4 °C,-20 °C

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Storage Comment: -20°C. Bring all reagents to room temperature before beginning test. The kit may be stored at 4°C for immediate use within two days upon arrival. Reseal any unused strips with desiccant pack. Minimize freeze/thaw cycles.

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Expiry Date: 4-8 months