

## General Glutamic Acid (Glu) ELISA Kit | Glu elisa kit

General Glutamic Acid (Glu) ELISA Kit

CATALOG #  
**AAA182411**

REACTIVITY  
**General**

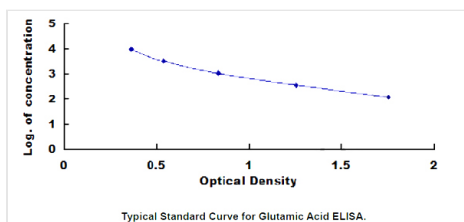
### PRODUCT SYNONYMS

Glutamic Acid (Glu); General Glutamic Acid (Glu) ELISA Kit; Glutamate; Glu elisa kit

### PRODUCT SPECIFICATIONS

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
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| Reactivity              | General                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Specificity             | This assay has high sensitivity and excellent specificity for detection of glutamic acid. No significant cross-reactivity or interference between glutamic acid and analogues was observed.                                                                                                                                                                                                                                                                                                |
| Assay Type              | Quantitative Competitive                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Samples                 | Biological fluids                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Detection Range         | 123.5-10,000ng/mL                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Sensitivity             | < 48.2ng/mL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Intra-assay Precision   | Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level glutamic acid 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 glutamic acid 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.<br>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

|                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
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| Related Product Information for Glu elisa kit | <p>Principle of the Assay: This assay employs the competitive inhibition enzyme immunoassay technique. A monoclonal antibody specific to glutamic acid has been pre-coated onto a microplate. A competitive inhibition reaction is launched between biotin labeled glutamic acid and unlabeled glutamic acid (Standards or samples) with the pre-coated antibody specific to glutamic acid. After incubation the unbound conjugate is washed off. Next, avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. The amount of bound HRP conjugate is reverse proportional to the concentration of glutamic acid in the sample. After addition of the substrate solution, the intensity of color developed is reverse proportional to the concentration of glutamic acid in the sample.</p> <p>Intended Uses: The kit is a competitive inhibition enzyme immunoassay technique for the in vitro quantitative measurement of glutamic acid in biological fluids.</p> |
| References                                    | <p><a href="#">The Impact of Intermittent Fasting on Brain-Derived Neurotrophic Factor, Neurotrophin 3, and Rat Behavior in a Rat Model of Type 2 Diabetes Mellitus; Brain Sci; 2021 Feb 15;11(2):242.; PMID: 33671898</a>; Basem H Elesawy; Department of Clinical Laboratory Sciences, College of Applied Medical Sciences, Taif University, P.O. Box 11099, Taif 21944, Saudi Arabia.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |

**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://stage.aaabiotech.com/general-elisa-kits/glutamic-acid-glu/182411>