

## Datasheet for ABIN5654016 **SLC1A7 ELISA Kit**



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### Overview

Quantity: 96 tests

Target: SLC1A7

Reactivity: Human

Method Type: Sandwich ELISA

Detection Range: 0.312 ng/mL - 20 ng/mL

Minimum Detection Limit: 0.312 ng/mL

Application: ELISA

### Product Details

Sample Type: Tissue Homogenate

Analytical Method: Quantitative

Detection Method: Colorimetric

Specificity: This assay has high sensitivity and excellent specificity for detection of Excitatory Amino Acid Transporter 5 (EAAT5). No significant cross-reactivity or interference between Excitatory Amino Acid Transporter 5 (EAAT5) and analogues was observed.

Sensitivity: 0.122 ng/mL

### Target Details

Target: SLC1A7

Alternative Name: Excitatory Amino Acid Transporter 5 ([SLC1A7 Products](#))

## Target Details

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Background: Gene Name: Excitatory Amino Acid Transporter 5  
Gene Aliases: SLC1A7, AAAT, Solute Carrier Family 1 Member 7, Glutamate Transporter, Retinal glutamate transporter

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Pathways: [Dicarboxylic Acid Transport](#)

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## 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.

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Assay Time: 3 h

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Plate: Pre-coated

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Protocol: The test principle applied in this kit is Sandwich enzyme immunoassay. The microtiter plate provided in this kit has been pre-coated with an antibody specific to Excitatory Amino Acid Transporter 5 (EAAT5). Standards or samples are then added to the appropriate microtiter plate wells with a biotin-conjugated antibody specific to Excitatory Amino Acid Transporter 5 (EAAT5). Next, Avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. After TMB substrate solution is added, only those wells that contain Excitatory Amino Acid Transporter 5 (EAAT5), biotin-conjugated antibody and enzyme-conjugated Avidin will exhibit a change in color. The enzyme-substrate reaction is terminated by the addition of sulphuric acid solution and the color change is measured spectrophotometrically at a wavelength of 450nm  $\pm$  10nm. The concentration of Excitatory Amino Acid Transporter 5 (EAAT5) in the samples is then determined by comparing the O.D. of the samples to the standard curve.

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Assay Precision: Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level Excitatory Amino Acid Transporter 5 (EAAT5) were tested 20 times on one plate, respectively  
Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level Excitatory Amino Acid Transporter 5 (EAAT5) were tested on 3 different plates, 8 replicates in each plate.  $CV(\%) = SD/mean \times 100$   
Intra-Assay:  $CV < 10\%$   
Inter-Assay:  $CV < 12\%$

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Restrictions: For Research Use only

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## Handling

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Handling Advice:	The Stop Solution is acidic. Do not allow to contact skin or eyes. Calibrators, controls and specimen samples should be assayed in duplicate. Once the procedure has been started, all steps should be completed without interruption.
Storage:	4 °C,-20 °C
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.
Expiry Date:	4-8 months