

Rat Enolase, Neuron Specific (NSE) ELISA Kit | NSE elisa kit

Rat Enolase, Neuron Specific (NSE)(Sandwich ELISA) Mini sample ELISA Kit

CATALOG #
AAA152377

REACTIVITY
Rat

PRODUCT SYNONYMS

Enolase; Neuron Specific (NSE); Rat Enolase; Neuron Specific (NSE)(Sandwich ELISA) Mini sample ELISA Kit; Mini Samples ELISA Kit for Enolase; ENO2; Enolase 2; Gamma Enolase; 2-phospho-D-glycerate hydro-lyase; Neural enolase; NSE elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Rat
Specificity	Detects protein (micro-volume samples 15-25 ul) Reactive with Rat NSE/Enolase, Neuron Specific This assay has high sensitivity and excellent specificity for detection of Mini Samples Enolase, Neuron Specific (NSE). No significant cross-reactivity or interference between Mini Samples Enolase, Neuron Specific (NSE) and analogues was observed.
Assay Type	Double-antibody Sandwich
Samples	Serum, Plasma, Tissue homogenates, Cell lysates, Cell culture supernates and other biological fluids
Detection Method	Colormetric
Sensitivity	0.232ng/mL
Assay Time	3h
Sample Size	15-25uL
Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level Mini Samples Enolase, Neuron Specific (NSE) were tested 20 times on one plate, respectively. Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level Mini Samples Enolase, Neuron Specific (NSE) were tested on 3 different plates, 8 replicates in each plate. CV(%) = SD/meanX100 Intra-Assay: CV<10%, Inter-Assay: CV<12%
Test Principle	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 Mini Samples Enolase, Neuron Specific (NSE). Standards or samples are then added to the appropriate microtiter plate wells with a biotin-conjugated antibody specific to Mini Samples Enolase, Neuron Specific (NSE). 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 Mini Samples Enolase, Neuron Specific (NSE), 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 +/- 10nm. The concentration of Mini Samples Enolase, Neuron Specific (NSE) in the samples is then determined by comparing the O.D. of the samples to the standard curve.
Assay Procedure Summary	1. Prepare all reagents, samples and standards 2. Add 25uL standard or sample to each well. Incubate 1 hour at 37 degree C 3. Aspirate and add 25uL prepared Detection Reagent A. Incubate 1 hour at 37 degree C 4. Aspirate and wash 3 times 5. Add 25uL prepared Detection Reagent B. Incubate 30 minutes at 37 degree C 6. Aspirate and wash 5 times 7. Add 25uL Substrate Solution. Incubate 10-20 minutes at 37 degree C 8. Add 20uL Stop Solution. Read at 450nm immediately.

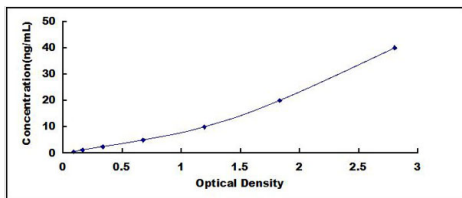
Preparation and Storage

Store at 4 degree C for 1 month/-20 degree C for long-term (within shelf life)

Shelf-life: one year

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.

IMAGES



Standard Curve (Sample)

Typical Standard Curve for NSE ELISA (Sandwich)

NCBI AND UNIPROT INFORMATION

NCBI GeneID	24334
UniProt Accession #	P07323
UniProt Protein Name	Gamma-enolase
UniProt Gene Name	Eno2
UniProt Synonym Gene Names	Eno-2
UniProt Entry Name	ENOG_RAT

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/rat-elisa-kits/enolase-neuron-specific-nse/152377>