

Rat Neuron Specific Enolase ELISA Kit | NSE elisa kit

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CATALOG #
AAA101655

REACTIVITY
Rat

PRODUCT SYNONYMS

Neuron Specific Enolase; Rat Neuron Specific Enolase ELISA Kit; NSE/ENO2/gamma-Enolase/enolase 2 (gamma; neuronal)/gamma-enolase/Neural enolase/neuron specific gamma enolase/Neuron-specific enolase; NSE elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Rat
Specificity	This assay has high sensitivity and excellent specificity for detection of NSE. No significant cross-reactivity or interference between NSE and analogues was observed.
Sequence Length	434
Assay Type	Sandwich ELISA, Double Antibody
Samples	Serum, Plasma, Cell Culture Supernatant, cell or tissue lysate, Other liquid samples
Detection Range	78.125-5000pg/ml
Sensitivity	46.875pg/ml
Intra-assay Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level NSE were tested 20 times on one plate, respectively. Intra-Assay: CV<8%
Inter-assay Precision	Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level NSE were tested on 3 different plates, 8 replicates in each plate. CV (%) = SD/meanX100. Inter-Assay: CV<10%
Preparation and Storage	Store entire kit at 2-8C for short-term. For longer-term, please store the microplate & standard at -20C, while the remaining reagents can be stored at 2-8C

IMAGES

Typical Data & Standard Curve

Results of a typical standard operation of a NSE ELISA Kit are listed below. This standard curve was generated at our lab for demonstration purpose only. Users shall obtain standard curve as per experiment by themselves. (N/A/not applicable)

X	pg/ml	0	78.125	156.25	312.5	625	1250	2500	5000
Y	OD450	0.082	0.134	0.174	0.393	0.693	1.477	2.123	2.83

Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for NSE elisa kit

Principle of the Assay: This kit was based on sandwich enzyme-linked immune-sorbent assay technology. Anti-NSE antibody was pre-coated onto 96-well plates. And the biotin conjugated anti-NSE antibody was used as detection antibodies. The standards, test samples and biotin conjugated detection antibody were added to the wells subsequently, and washed with wash buffer. HRP-Streptavidin was added and unbound conjugates were washed away with wash buffer. TMB substrates were used to visualize HRP enzymatic reaction. TMB was catalyzed by HRP to produce a blue color product that changed into yellow after adding acidic stop solution. The density of yellow is proportional to the NSE amount of sample captured in plate. Read the O.D. absorbance at 450nm in a microplate reader, and then the concentration of NSE can be calculated.

NCBI AND UNIPROT INFORMATION

NCBI GI #	359719155
NCBI GeneID	102190860
Molecular Weight	47,266 Da
NCBI Official Full Name	neuron-specific enolase
NCBI Official Symbol	ENO2
NCBI Official Synonym Symbols	NSE
NCBI Protein Information	enolase 2 (gamma, neuronal)
UniProt Protein Name	Neuron-specific enolase
UniProt Gene Name	NSE
UniProt Entry Name	G9JNA8_CAPHI

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/nse-rat-elisa-kits/neuron-specific-enolase/101655>