



Rat Neuron-specific enolase,NSE ELISA Kit

Product Code	CSB-E07963r
Protein Biological Process 2	glyconeogenesis and glycometabolism
Abbreviation	ENO2
Protein Biological Process 1	Biosynthesis/Metabolism
Target Name	enolase 2 (gamma, neuronal)
Uniprot No.	P07323
Alias	NSE, 2-phospho-D-glycerate hydrolyase enolase 2 neural enolase neuron specific gamma enolase neurone-specific enolase
Product Type	ELISA Kit
Immunogen Species	Rattus norvegicus (Rat)
Protein Biological Process 3	Glycolysis
Sample Types	serum, plasma, tissue homogenates
Detection Range	0.625 ng/mL-40 ng/mL
Sensitivity	0.156 ng/mL
Assay Time	1-5h
Sample Volume	50-100ul
Detection Wavelength	450 nm
Lead Time	3-5 working days after you place the order, and it takes another 3-5 days for delivery via DHL or FedEx.
Research Area	Metabolism
Gene Names	Eno2
Tag Info	quantitative
Protein Description	Sandwich

Description

This Rat ENO2 ELISA Kit was designed for the quantitative measurement of Rat ENO2 protein in serum, plasma, tissue homogenates. It is a Sandwich ELISA kit, its detection range is 0.625 ng/mL-40 ng/mL and the sensitivity is 0.156 ng/mL .

Target Details

This gene encodes one of the three enolase isoenzymes found in mammals. This isoenzyme, a homodimer, is found in mature neurons and cells of neuronal origin. A switch from alpha enolase to gamma enolase occurs in neural tissue during development in rats and primates.



Product Precision

Intra-assay Precision (Precision within an assay): CV%<8%

Three samples of known concentration were tested twenty times on one plate to assess.

Inter-assay Precision (Precision between assays): CV%<10%

Three samples of known concentration were tested in twenty assays to assess.

Linearity

To assess the linearity of the assay, samples were spiked with high concentrations of rat NSE in various matrices and diluted with the Sample Diluent to produce samples with values within the dynamic range of the assay.

?	Sample	Serum(n=4)
	Average %	89
1:1	Range %	85-94
	Average %	100
1:2	Range %	97-104
	Average %	90
1:4	Range %	87-94
	Average %	100
1:8	Range %	95-103

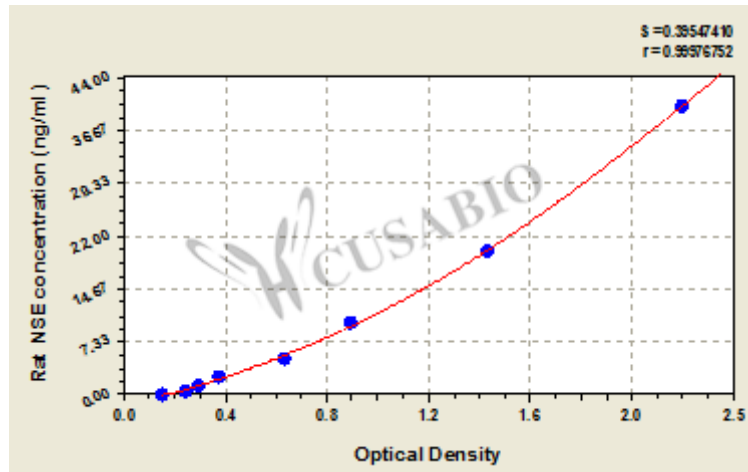
Recovery

The recovery of rat NSE spiked to levels throughout the range of the assay in various matrices was evaluated. Samples were diluted prior to assay as directed in the Sample Preparation section.

Sample Type	Average % Recovery	Range
Serum (n=5)	95	91-98
EDTA plasma (n=4)	95	92-97

Typical

These standard curves are provided for demonstration only. A standard curve should be generated for each set of samples assayed.



ng/ml	OD1	OD2	Average	Corrected
40	2.260	2.232	2.246	2.078
20	1.454	1.486	1.470	1.302
10	0.920	0.928	0.924	0.756
5	0.654	0.663	0.659	0.491
2.5	0.403	0.398	0.401	0.233
1.25	0.322	0.314	0.318	0.150
0.625	0.266	0.257	0.262	0.094
0	0.170	0.166	0.168	?

Msds

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