



# Rat Endothelial nitric oxide synthase,eNOS/NOS3 ELISA Kit

<b>Product Code</b>	CSB-E08323r
<b>Abbreviation</b>	NOS3
<b>Target Name</b>	nitric oxide synthase 3 (endothelial cell)
<b>Uniprot No.</b>	Q62600
<b>Alias</b>	ECNOS, eNOS, nitric oxide synthase 3
<b>Product Type</b>	ELISA Kit
<b>Immunogen Species</b>	Rattus norvegicus (Rat)
<b>Sample Types</b>	serum, plasma, cell culture supernates, cell lysates
<b>Detection Range</b>	15.6 $\mu$ IU/mL-1000 $\mu$ IU/mL
<b>Sensitivity</b>	3.9 $\mu$ IU/mL
<b>Assay Time</b>	1-5h
<b>Sample Volume</b>	50-100ul
<b>Detection Wavelength</b>	450 nm
<b>Lead Time</b>	3-5 working days after you place the order, and it takes another 3-5 days for delivery via DHL or FedEx.
<b>Research Area</b>	Neuroscience
<b>Gene Names</b>	Nos3
<b>Tag Info</b>	quantitative
<b>Protein Description</b>	Sandwich
<b>Description</b>	This Rat NOS3 ELISA Kit was designed for the quantitative measurement of Rat NOS3 protein in serum, plasma, cell culture supernates, cell lysates. It is a Sandwich ELISA kit, its detection range is 15.6 $\mu$ IU/mL-1000 $\mu$ IU/mL and the sensitivity is 3.9 $\mu$ IU/mL .
<b>Target Details</b>	Nitric oxide is a reactive free radical which acts as a biologic mediator in several processes, including neurotransmission and antimicrobial and antitumoral activities. Nitric oxide is synthesized from L-arginine by nitric oxide synthases. Variations in this gene are associated with susceptibility to coronary spasm. Multiple transcript variants encoding different isoforms have been found for this gene.
<b>Product Precision</b>	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 eNOS 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)
1:100	Average %	96
	Range %	92-100
1:200	Average %	92
	Range %	90-95
1:400	Average %	91
	Range %	85-96
1:800	Average %	89
	Range %	85-98

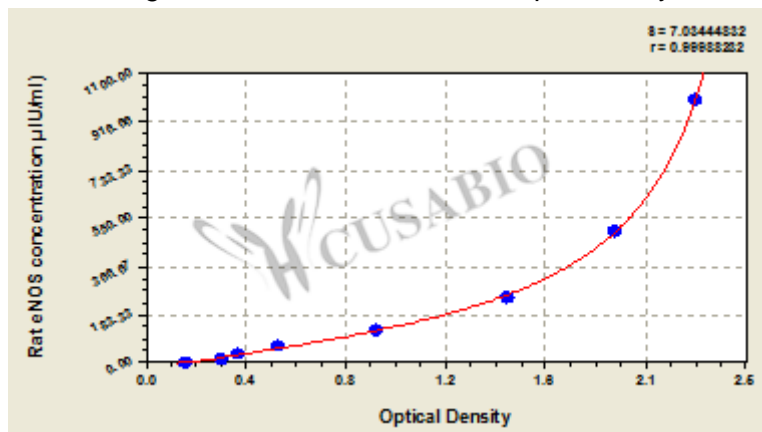
## Recovery

The recovery of rat eNOS 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)	92	85-97
EDTA plasma (n=4)	94	92-98

## Typical

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



μIU/ml.	OD1	OD2	Average	Corrected
1000	2.203	2.304	2.254	2.077
500	1.914	1.934	1.924	1.747
250	1.477	1.498	1.488	1.311
125	0.953	0.951	0.952	0.775
62.5	0.534	0.571	0.553	0.376
31.2	0.391	0.399	0.395	0.218
15.6	0.317	0.325	0.321	0.144
0	0.175	0.178	0.177	?

## Msds

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