



Rat neurotensin (NTS) ELISA kit

Product Code	CSB-EL016136RA
Abbreviation	NTS
Target Name	neurotensin
Uniprot No.	P20068
Alias	NMN-125, NN, NT, NT/N, NTS1, neuromedin N neurotensin/neuromedin N
Product Type	ELISA Kit
Immunogen Species	Rattus norvegicus (Rat)
Sample Types	serum, plasma, tissue homogenates, cell lysates
Detection Range	15.6 pg/mL-1000 pg/mL
Sensitivity	3.9 pg/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	Neuroscience
Gene Names	Nts
Tag Info	quantitative
Protein Description	Sandwich

Description

This Rat NTS ELISA Kit was designed for the quantitative measurement of Rat NTS protein in serum, plasma, tissue homogenates, cell lysates. It is a Sandwich ELISA kit, its detection range is 15.6 pg/mL-1000 pg/mL and the sensitivity is 3.9 pg/mL.

Target Details

This gene encodes a common precursor for two peptides, neuromedin N and neurotensin. Neurotensin is a secreted tridecapeptide, which is widely distributed throughout the central nervous system, and may function as a neurotransmitter or a neuromodulator. It may be involved in dopamine-associated pathophysiological events, in the maintenance of gut structure and function, and in the regulation of fat metabolism. Tissue-specific processing may lead to the formation in some tissues of larger forms of neuromedin N and neurotensin. The large forms may represent more stable peptides that are also biologically active.

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 NTS 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 %	92
1:1	Range %	88-96
	Average %	84
1:2	Range %	80-88
	Average %	95
1:4	Range %	90-99
	Average %	89
1:8	Range %	85-93

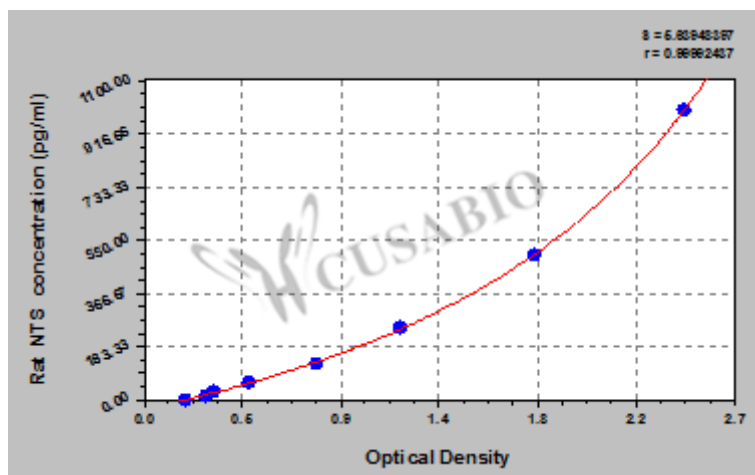
Recovery

The recovery of rat NTS 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)	97	92-103
EDTA plasma (n=4)	100	95-108

Typical

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



pg/ml	OD1	OD2	Average	Corrected
1000	2.541	2.379	2.460	2.253
500	1.839	1.721	1.780	1.573
250	1.152	1.205	1.179	0.972
125	0.785	0.816	0.801	0.594
62.5	0.503	0.482	0.493	0.286
31.2	0.348	0.328	0.338	0.131
15.6	0.294	0.303	0.299	0.092
0	0.203	0.210	0.207	?

Msds

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