



# Rat Neurotrophin 3,NT-3 ELISA KIT

<b>Product Code</b>	CSB-E04688r
<b>Abbreviation</b>	NTF3
<b>Target Name</b>	neurotrophin 3
<b>Uniprot No.</b>	P18280
<b>Alias</b>	HDNF, MGC129711, NGF-2, NGF2, NT3,
<b>Product Type</b>	ELISA Kit
<b>Immunogen Species</b>	Rattus norvegicus (Rat)
<b>Sample Types</b>	serum, plasma, tissue homogenates
<b>Detection Range</b>	0.9 ng/mL-60 ng/mL
<b>Sensitivity</b>	0.225 ng/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>	Ntf3
<b>Tag Info</b>	quantitative
<b>Protein Description</b>	Sandwich
<b>Description</b>	This Rat NTF3 ELISA Kit was designed for the quantitative measurement of Rat NTF3 protein in serum, plasma, tissue homogenates. It is a Sandwich ELISA kit, its detection range is 0.9 ng/mL-60 ng/mL and the sensitivity is 0.225 ng/mL.
<b>Target Details</b>	This protein is a member of the neurotrophin family, that controls survival and differentiation of mammalian neurons. This protein is closely related to both nerve growth factor and brain-derived neurotrophic factor. It may be involved in the maintenance of the adult nervous system, and may affect development of neurons in the embryo when it is expressed in human placenta. NTF3-deficient mice generated by gene targeting display severe movement defects of the limbs. The mature peptide of this protein is identical in all mammals examined including human, pig, rat and mouse.
<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 NT-3 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)
1:1	Average %	92
	Range %	88-96
1:2	Average %	94
	Range %	89-98
1:4	Average %	97
	Range %	93-101
1:8	Average %	95
	Range %	89-98

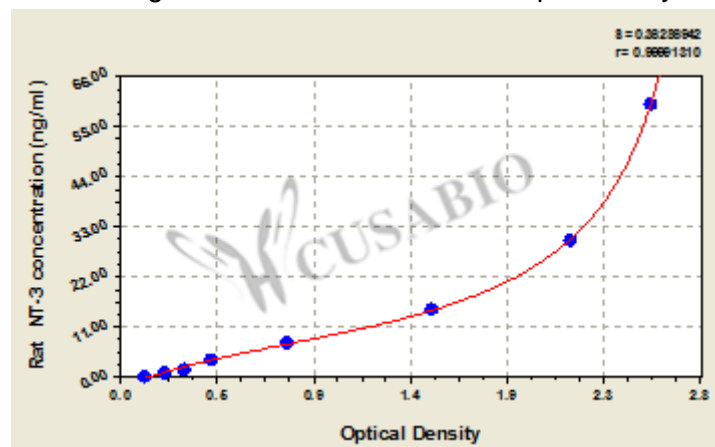
## Recovery

The recovery of rat NT-3 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)	88	82-94
EDTA plasma (n=4)	92	86-98

## 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
60	2.512	2.619	2.566	2.434
30	2.235	2.121	2.178	2.046
15	1.526	1.504	1.515	1.383
7.5	0.812	0.823	0.818	0.686
3.75	0.458	0.446	0.452	0.320
1.8	0.326	0.314	0.320	0.188
0.9	0.221	0.227	0.224	0.092
0	0.133	0.131	0.132	

## Msds

{"0":{"fileurl":"https://www.cusabio.com/uploadfile/msds/MSDS CSB-E04688r.pdf","filename":"MSDS"}}