



Rat Neurotrophin 4,NT-4 ELISA KIT

Product Code	CSB-E04691r
Abbreviation	NTF4
Target Name	neurotrophin 4
Uniprot No.	P34131
Alias	GLC10, GLC1O, NT-4/5, NT4, NT5, NTF5, neurotrophic factor 4 neurotrophic factor 5 neurotrophin 5 neurotrophin 5 (neurotrophin 4/5)
Product Type	ELISA Kit
Immunogen Species	Rattus norvegicus (Rat)
Sample Types	serum, plasma, tissue homogenates
Detection Range	47 pg/mL-3000 pg/mL
Sensitivity	11.75 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	Ntf4
Tag Info	quantitative
Protein Description	Sandwich

Description

This Rat NTF4 ELISA Kit was designed for the quantitative measurement of Rat NTF4 protein in serum, plasma, tissue homogenates. It is a Sandwich ELISA kit, its detection range is 47 pg/mL-3000 pg/mL and the sensitivity is 11.75 pg/mL .

Target Details

This gene is a member of a family of neurotrophic factors, neurotrophins, that control survival and differentiation of mammalian neurons. The expression of this gene is ubiquitous and less influenced by environmental signals. While knock-outs of other neurotrophins including nerve growth factor, brain-derived neurotrophic factor, and neurotrophin 3 prove lethal during early postnatal development, NTF5-deficient mice only show minor cellular deficits and develop normally to adulthood.

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 NT-4 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 %	86
	Range %	82-94
1:2	Average %	93
	Range %	88-98
1:4	Average %	96
	Range %	90-102
1:8	Average %	99
	Range %	95-104

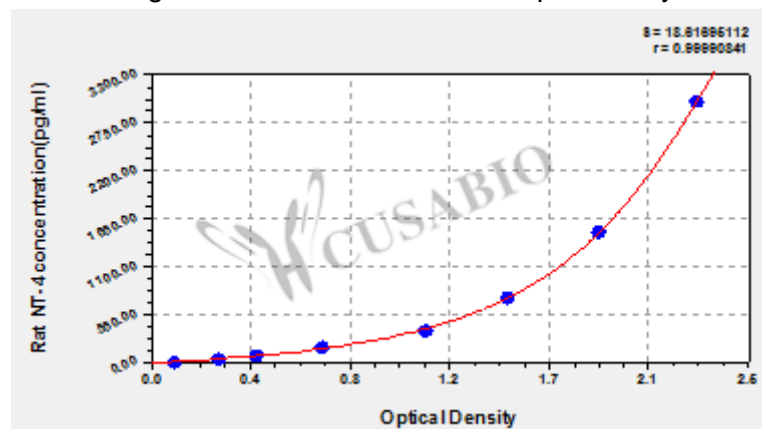
Recovery

The recovery of rat NT-4 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)	96	90-102
EDTA plasma (n=4)	100	95-105

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
3000	2.268	2.250	2.259	2.150
1500	1.845	1.871	1.858	1.749
750	1.464	1.492	1.478	1.369
375	1.135	1.149	1.142	1.033
187.5	0.704	0.724	0.714	0.605
94	0.438	0.457	0.448	0.339
47	0.287	0.294	0.291	0.182
0	0.108	0.110	0.109	?

Msds

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