Rat Ciliary Neurotrophic Factor,CNTF ELISA Kit

Product Code	CSB-E04528r
Abbreviation	CNTF
Protein Biological Process 1	Developmental Protein
Target Name	ciliary neurotrophic factor
Uniprot No.	P20294
Alias	HCNTF
Product Type	ELISA Kit
Immunogen Species	Rattus norvegicus (Rat)
Protein Biological Process 3	Differentiation
Sample Types	serum, plasma, tissue homogenates
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	Cntf
Tag Info	quantitative
Protein Description	Sandwich
Description	This Rat CNTF ELISA Kit was designed for the quantitative measurement of Rat CNTF protein in serum, plasma, tissue homogenates. 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 protein is a polypeptide hormone whose actions appear to be restricted to the nervous system where it promotes neurotransmitter synthesis and neurite outgrowth in certain neuronal populations. The protein is a potent survival factor for neurons and oligodendrocytes and may be relevant in reducing tissue destruction during inflammatory attacks. A mutation in this gene, which results in aberrant splicing, leads to ciliary neurotrophic factor deficiency, but this phenotype is not causally related to neurologic disease. A read-through

transcript variant composed of ZFP91 and CNTF sequence has been identified, but it is thought to be non-coding. Read-through transcription of ZFP91 and CNTF has also been observed in mouse.

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 CNTF 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 %	95
	Range %	92-100
1:2	Average %	90
	Range %	82-95
1:4	Average %	103
	Range %	99-110
1:8	Average %	87
	Range %	82-98

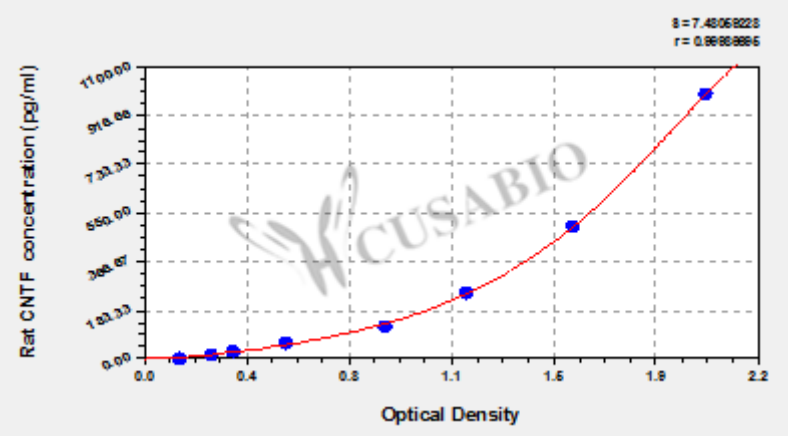
Recovery

The recovery of rat CNTF 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)	90	82-95
EDTA plasma (n=4)	108	106-113

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	2.121	1.985	2.053	1.913
500	1.598	1.543	1.571	1.431
250	1.223	1.144	1.184	1.044
125	0.865	0.911	0.888	0.748
62	0.542	0.513	0.528	0.388
31.2	0.339	0.331	0.335	0.195
15.6	0.257	0.255	0.256	0.116
0	0.142	0.137	0.140	?

Msds

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