



# Rat Nerve growth factor,NGF ELISA kit

<b>Product Code</b>	CSB-E04685r
<b>Abbreviation</b>	NGF
<b>Target Name</b>	nerve growth factor (beta polypeptide)
<b>Uniprot No.</b>	P25427
<b>Alias</b>	Beta-NGF, HSAN5, MGC161426, MGC161428, NGFB, beta-nerve growth factor nerve growth factor, beta polypeptide nerve growth factor, beta subunit
<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>	0.78 pg/mL-50 pg/mL
<b>Sensitivity</b>	0.195 pg/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>	Ngf
<b>Tag Info</b>	quantitative
<b>Protein Description</b>	Sandwich

**Description**

This Rat NGF ELISA Kit was designed for the quantitative measurement of Rat NGF protein in serum, plasma, tissue homogenates. It is a Sandwich ELISA kit, its detection range is 0.78 pg/mL-50 pg/mL and the sensitivity is 0.195 pg/mL .

**Target Details**

This gene is a member of the NGF-beta family and encodes a secreted protein which homodimerizes and is incorporated into a larger complex. This protein has nerve growth stimulating activity and the complex is involved in the regulation of growth and the differentiation of sympathetic and certain sensory neurons. Mutations in this gene have been associated with hereditary sensory and autonomic neuropathy, type 5 (HSAN5), and dysregulation of this gene s expression is associated with allergic rhinitis.

**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 NGF 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 %	90
	Range %	86-94
1:200	Average %	84
	Range %	80-88
1:400	Average %	89
	Range %	84-96
1:800	Average %	93
	Range %	89-98

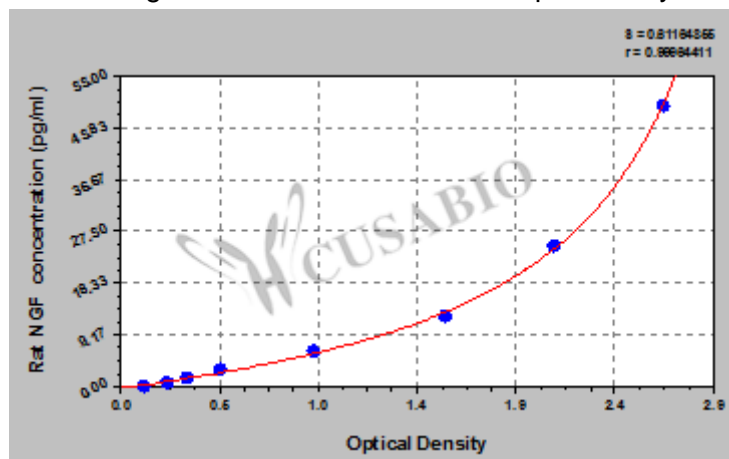
## Recovery

The recovery of rat NGF 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	92-104
EDTA plasma (n=4)	94	89-98

## 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
50	2.635	2.571	2.603	2.477
25	2.052	2.121	2.087	1.961
12.5	1.563	1.564	1.564	1.438
6.25	0.917	0.951	0.934	0.808
3.12	0.502	0.469	0.486	0.360
1.56	0.334	0.321	0.328	0.202
0.78	0.241	0.230	0.236	0.110
0	0.128	0.124	0.126	?

## Msds

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