

Rat ciliary neurotrophic factor ELISA Kit | CNTF elisa kit

Rat Ciliary Neurotrophic Factor, CNTF ELISA Kit

CATALOG #
AAA80684

REACTIVITY
Rat

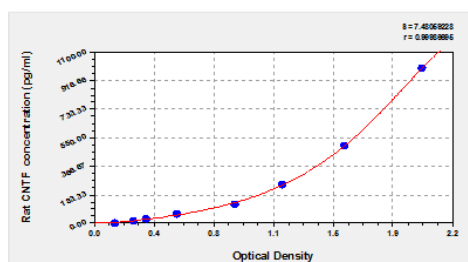
PRODUCT SYNONYMS

ciliary neurotrophic factor; Rat Ciliary Neurotrophic Factor; CNTF ELISA Kit; HCNTF; ; CNTF elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Rat
Specificity	This assay has high sensitivity and excellent specificity for detection of Rat CNTF. No significant cross-reactivity or interference between Rat CNTF and analogues was observed.
Sequence Length	199
Intra-assay Precision	Intra-assay Precision (Precision within an assay): CV% is less than 8% Three samples of known concentration were tested twenty times on one plate to assess. Inter-assay Precision (Precision between assays): CV% is less than 10% Three samples of known concentration were tested in twenty assays to assess.
Detection Wavelength	450 nm
Sample Volume	50-100ul
Protein Biological Process 1	Developmental Protein
Protein Biological Process 3	Differentiation
Preparation and Storage	Unopened test kits should be stored at 2 to 8 degree C upon receipt. Please refer to pdf manual for further storage instructions.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for CNTF elisa kit	Introduction: Ciliary neurotrophic factor (CNTF), is a polypeptide hormone and nerve growth factor whose actions appear to be restricted to the nervous system where it promotes neurotransmitter synthesis and neurite outgrowth in certain neuronal populations including astrocytes. 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. In addition to the predominant monocistronic transcript originating from this locus, the gene is also co-transcribed with the upstream ZFP91 gene. Co-transcription from the two loci results in a transcript that contains a complete coding region for the zinc finger protein but lacks a complete coding region for ciliary neurotrophic factor. Principle of the Assay: The microtiter plate provided in this kit has been pre-coated with an antibody specific to CNTF. Standards or samples are then added to the appropriate microtiter plate wells with a biotin-conjugated antibody preparation specific for CNTF and Avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. Then a TMB (3,3',5,5' tetramethyl-benzidine) substrate solution is added to each well. Only those wells that contain CNTF, biotin-conjugated antibody and enzyme-conjugated Avidin will exhibit a change in color. The enzyme-substrate reaction is terminated by the addition of a sulphuric acid solution and the color change is measured spectrophotometrically at a wavelength of 450 nm +/- 2 nm. The concentration of CNTF in the samples is then determined by comparing the O.D. of the samples to the standard curve.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	126723183
NCBI GeneID	100009117
NCBI Accession #	NP_001075752.1
NCBI GenBank Nucleotide #	NM_001082283.1
UniProt Accession #	P14188
Molecular Weight	22,662 Da
NCBI Official Full Name	ciliary neurotrophic factor
NCBI Official Symbol	CNTF
NCBI Protein Information	ciliary neurotrophic factor; ciliary neurotropic factor
UniProt Protein Name	Ciliary neurotrophic factor
UniProt Gene Name	CNTF
UniProt Synonym Gene Names	CNTF
UniProt Entry Name	CNTF_RABIT

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.