

Rat neurotrophin 4 ELISA Kit | NTF4 elisa kit

Rat Neurotrophin 4, NT-4 ELISA Kit

CATALOG #
AAA79449

REACTIVITY
Rat

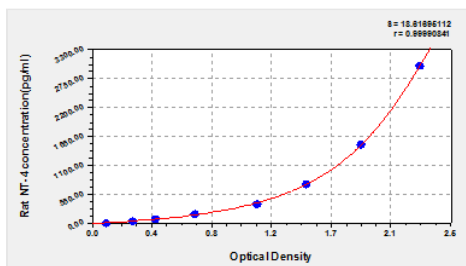
PRODUCT SYNONYMS

neurotrophin 4; Rat Neurotrophin 4; NT-4 ELISA Kit; NT-4 ELISA KIT; GLC10; GLC10; NT-4/5; NT4; NT5; NTF5; neurotrophic factor 4; neurotrophic factor 5; neurotrophin 5; neurotrophin 5 (neurotrophin 4/5) ; NTF4 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Rat
Specificity	This assay has high sensitivity and excellent specificity for detection of Rat NTF4. No significant cross-reactivity or interference between Rat NTF4 and analogues was observed.
Sequence Length	209
Samples	Serum, plasma and tissue homogenates
Detection Range	47 pg/ml-3000 pg/ml
Sensitivity	11.75 pg/ml
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
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 NTF4 elisa kit	Introduction: Neurotrophins are a family of proteins that induce the survival, development and function of neurons. They belong to a class of growth factors, secreted proteins, which are capable of signaling particular cells to survive, differentiate, or grow. Growth factors such as neurotrophins that promote the survival of neurons are known as neurotrophic factors. Neurotrophic factors are secreted by target tissue and act by preventing the associated neuron from initiating programmed cell death - thus allowing the neurons to survive. Neurotrophins also induce differentiation of progenitor cells, to form neurons. Neurotrophin-4 (NT-4) like BDNF, is a neurotrophic factor that signals predominantly through the TrkB receptor tyrosine kinase. Principle of the Assay: The microtiter plate provided in this kit has been pre-coated with an antibody specific to NT-4. Standards or samples are then added to the appropriate microtiter plate wells with a biotin-conjugated antibody preparation specific for NT-4 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 NT-4, 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 NT-4 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 #	31377533
NCBI GeneID	25730
NCBI Accession #	NP_037316.2
NCBI GenBank Nucleotide #	NM_013184.3
UniProt Accession #	P34131
Molecular Weight	22,333 Da
NCBI Official Full Name	neurotrophin-4
NCBI Official Synonym Full Names	neurotrophin 4
NCBI Official Symbol	Ntf4
NCBI Official Synonym Symbols	NT4P; Ntf5
NCBI Protein Information	neurotrophin-4; NT-4; NT-5; neurotrophin-5; neutrophic factor 4; Neurotrophin 5 (neurotrophin 4/5)
UniProt Protein Name	Neurotrophin-4
UniProt Gene Name	Ntf4
UniProt Synonym Gene Names	Nt4; Ntf5; NT-4; NT-5
UniProt Entry Name	NTF4_RAT

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.