

Rat Neurotrophin 3 (NT3) ELISA Kit | NT3 elisa kit

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CATALOG #
AAA182892

REACTIVITY
Rat

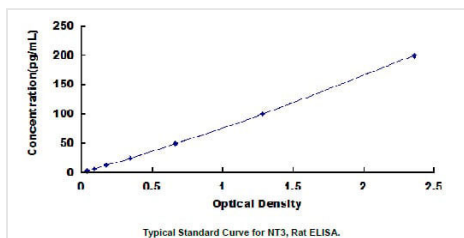
PRODUCT SYNONYMS

Neurotrophin 3 (NT3); Rat Neurotrophin 3 (NT3) ELISA Kit; NTF3; HDNF; NGF2; Nerve Growth Factor 2; Neurotrophic Factor; NT3 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Rat
Specificity	This assay has high sensitivity and excellent specificity for detection of NRP1. No significant cross-reactivity or interference between NRP1 and analogues was observed.
Sequence Length	257
Samples	Human Serum, Plasma, Tissue Homogenates And Other Biological Fluids
Assay Type	Quantitative Sandwich
Detection Range	62.5-4,000pg/mL
Sensitivity	26.2pg/mL.
Intra-assay Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level NRP1 were tested 20 times on one plate, respectively. Intra-Assay: CV<10%
Inter-assay Precision	Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level NRP1 were tested on 3 different plates, 8 replicates in each plate. CV(%) = SD/meanX100. Inter-Assay: CV<12%
Preparation and Storage	The stability of kit is determined by the loss rate of activity. The loss rate of this kit is less than 5% within the expiration date under appropriate storage condition. To minimize extra influence on the performance, operation procedures and lab conditions, especially room temperature, air humidity, incubator temperature should be strictly controlled. It is also strongly suggested that the whole assay is performed by the same operator from the beginning to the end.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for NT3 elisa kit	Intended Uses: The kit is a sandwich enzyme immunoassay for in vitro quantitative measurement of NRP1 in human serum, plasma, tissue homogenates and other biological fluids. Principle of the Assay: The microplate provided in this kit has been pre-coated with an antibody specific to NRP1. Standards or samples are then added to the appropriate microplate wells with a biotin-conjugated antibody specific to NRP1. Next, Avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. After TMB substrate solution is added, only those wells that contain NRP1, biotin-conjugated antibody and enzyme-conjugated Avidin will exhibit a change in color. The enzyme-substrate reaction is terminated by the addition of sulphuric acid solution and the color change is measured spectrophotometrically at a wavelength of 450nm +/- 10nm. The concentration of NRP1 in the samples is then determined by comparing the O.D. of the samples to the standard curve.
References	The Impact of Intermittent Fasting on Brain-Derived Neurotrophic Factor, Neurotrophin 3, and Rat Behavior in a Rat Model of Type 2 Diabetes Mellitus; Brain Sci; 2021 Feb 15;11(2):242.; PMID: 33671898; Basem H Elesawy; Department of Clinical Laboratory Sciences, College of Applied Medical Sciences, Taif University, P.O. Box 11099, Taif 21944, Saudi Arabia.

NCBI AND UNIPROT INFORMATION

NCBI GI #	4505469
NCBI GeneID	4908
NCBI Accession #	NP_002518.1
NCBI GenBank Nucleotide #	NM_002527.4
UniProt Accession #	P20783; Q6FH50; B7Z1T5
Molecular Weight	30,800 Da
NCBI Official Full Name	neurotrophin-3 isoform 2 preproprotein
NCBI Official Synonym Full Names	neurotrophin 3
NCBI Official Symbol	NTF3
NCBI Official Synonym Symbols	NT3; HDNF; NGF2; NT-3; NGF-2
NCBI Protein Information	neurotrophin-3
UniProt Protein Name	Neurotrophin-3
UniProt Gene Name	NTF3
UniProt Synonym Gene Names	NT-3; NGF-2

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.