

Chicken Brain Derived Neurotrophic Factor (BDNF) ELISA Kit | BDNF elisa kit

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CATALOG #
AAA190115

REACTIVITY
Chicken

PRODUCT SYNONYMS

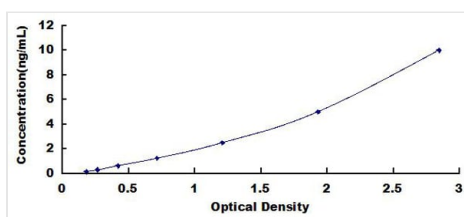
Brain Derived Neurotrophic Factor (BDNF); Chicken Brain Derived Neurotrophic Factor (BDNF) ELISA Kit; BDNF ELISA kit (Chicken); Brain Derived Neurotrophic Factor; Neurotrophin; Abrineurin; BDNF elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Chicken
Specificity	This assay has high sensitivity and excellent specificity for detection of Brain Derived Neurotrophic Factor (BDNF). No significant cross-reactivity or interference between Brain Derived Neurotrophic Factor (BDNF) and analogues was observed. Reactive with Chicken BDNF/Brain Derived Neurotrophic Factor
Assay Type	Double-antibody Sandwich
Samples	Serum, Plasma, Tissue homogenates, Cell lysates, Cell culture supernates and other biological fluids
Detection Range	0.156-10ng/mL
Sensitivity	0.056ng/mL
Sample Size	100uL
Detection Method	Colormetric
Featured Series	SE kit
Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level Brain Derived Neurotrophic Factor (BDNF) were tested 20 times on one plate, respectively. Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level Brain Derived Neurotrophic Factor (BDNF) were tested on 3 different plates, 8 replicates in each plate. $CV(\%) = SD/mean \times 100$ Intra-Assay: CV<10%, Inter-Assay: CV<12%
Function	Detects protein (regular version)
Assay Procedure Summary	1. Prepare all reagents, samples and standards 2. Add 100ul standard or sample to each well. Incubate 2 hours at 37 degree C 3. Aspirate and add 100ul prepared Detection Reagent A. Incubate 1 hour at 37 degree C 4. Aspirate and wash 3 times 5. Add 100ul prepared Detection Reagent B. Incubate 30 minutes at 37 degree C 6. Aspirate and wash 5 times 7. Add 90ul Substrate Solution. Incubate 10-20 minutes at 37 degree C 8. Add 50ul Stop Solution. Read at 450nm immediately.

Test Principle	The test principle applied in this kit is Sandwich enzyme immunoassay. The microtiter plate provided in this kit has been pre-coated with an antibody specific to Brain Derived Neurotrophic Factor (BDNF). Standards or samples are then added to the appropriate microtiter plate wells with a biotin-conjugated antibody specific to Brain Derived Neurotrophic Factor (BDNF). 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 Brain Derived Neurotrophic Factor (BDNF), 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 Brain Derived Neurotrophic Factor (BDNF) in the samples is then determined by comparing the O.D. of the samples to the standard curve.
Research Area	Cytokine, Infection immunity, Neuro science
Preparation and Storage	Store at 4 degree C for 1 month/-20 degree C for long-term (One year within shelf life) 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)

NCBI AND UNIPROT INFORMATION

NCBI GI #	71979935
NCBI GeneID	396186
NCBI Accession #	NP_001026787.1
NCBI GenBank Nucleotide #	NM_001031616.1
UniProt Accession #	P25429; Q45N27
Molecular Weight	27,715 Da
NCBI Official Full Name	brain-derived neurotrophic factor
NCBI Official Synonym Full Names	brain-derived neurotrophic factor
NCBI Official Symbol	BDNF
NCBI Protein Information	brain-derived neurotrophic factor
UniProt Protein Name	Brain-derived neurotrophic factor
UniProt Gene Name	BDNF
UniProt Synonym Gene Names	BDNF
UniProt Entry Name	BDNF_CHICK

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.