

Rat BDNF ELISA Kit | BDNF elisa kit

Rat BDNF ELISA Kit

CATALOG # AAA17878	REACTIVITY Rat	APPLICATIONS ELISA
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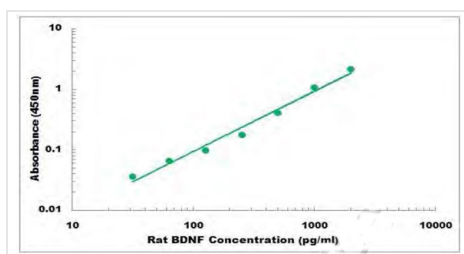
PRODUCT SYNONYMS

BDNF; Rat BDNF ELISA Kit; Brain-derived neurotrophic factor; Abreineurin; BDNF elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Rat
Specificity	The Rat BDNF ELISA Kit allows for the detection and quantification of endogenous levels of natural and/or recombinant Rat BDNF proteins within the range of 31.2 pg/ml - 2000 pg/ml.
Sequence Length	362
Samples	Culture Supernatants, Serum, Plasma
Sensitivity	< 2 pg/ml
Applicable Applications for BDNF elisa kit	ELISA (Sandwich ELISA)
Preparation and Storage	Shipped and store at 4 degree C for 6 months, store at -20 degree C for one year. Avoid freeze/thaw cycles.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for BDNF elisa kit

Background: Brain-derived neurotrophic factor (BDNF) is a prosurvival factor induced by cortical neurons that is necessary for survival of striatal neurons in the brain. It is a secreted protein with the molecular weight of 27.8kDa, consisting of 247 amino acids. It is known to promote neuronal survival and differentiation. BDNF shares substantial amino acid sequence identity with nerve growth factor (NGF). BDNF and neurotrophin-3 (NT-3) are two recently cloned neurotrophic factors that are homologous to NGF. mRNA products of the BDNF and NT-3 genes are detected in the adult human brain, suggesting that these proteins are involved in the maintenance of the adult nervous system. BDNF and other neurotrophins are critically involved in long-term potentiation (LTP). BDNF-mediated LTP is induced postsynaptically. BDNF has trophic effects on serotonergic (5-HT) neurons in the central nervous system. BDNF has an essential maintenance function in the regulation of anxiety-related behavior and in food intake through central mediators in both the basal and fasted state. It plays a role in treating breathing disorders such as respiratory insufficiency after spinal injury. The mature form of BDNF is identical in all mammals examined, and the gene encoding human BDNF to chromosome 11, band p13.

Principle of the Assay: The Rat BDNF ELISA (Enzyme-Linked Immunosorbent Assay) kit is an in vitro enzyme-linked immunosorbent assay for the quantitative measurement of Rat BDNF in Cell Culture Supernatants, Serum, Plasma. This assay employs an antibody specific for Rat BDNF coated on a 96-well plate. Standards and samples are pipetted into the wells and BDNF present in a sample is bound to the wells by the immobilized antibody. The wells are washed and biotinylated anti-Rat BDNF antibody is added. After washing away unbound biotinylated antibody, HRP-conjugated streptavidin is pipetted to the wells. The wells are again washed, a TMB substrate solution is added to the wells and color develops in proportion to the amount of BDNF bound. The Stop Solution changes the color from blue to yellow, and the intensity of the color is measured at 450 nm.

NCBI AND UNIPROT INFORMATION

NCBI GI #	397174764
NCBI GeneID	24225
NCBI Accession #	NP_001257559.1
NCBI GenBank Nucleotide #	NM_001270630.1
UniProt Accession #	P23363 ; Q53YL8
Molecular Weight	28,109 Da
NCBI Official Full Name	brain-derived neurotrophic factor isoform 1
NCBI Official Synonym Full Names	brain-derived neurotrophic factor
NCBI Official Symbol	Bdnf
NCBI Protein Information	brain-derived neurotrophic factor; brain derived neurotrophic factor; brain derived neurothrophic factor
UniProt Protein Name	Brain-derived neurotrophic factor
UniProt Gene Name	Bdnf
UniProt Synonym Gene Names	BDNF
UniProt Entry Name	BDNF_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.

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Online datasheet: <https://stage.aaabiotech.com/rat-elisa-kits/bdnf/17878>