

Mouse BDNF ELISA Kit | BDNF elisa kit

Mouse BDNF PicoKine ELISA Kit

CATALOG #
AAA45215

REACTIVITY
Mouse

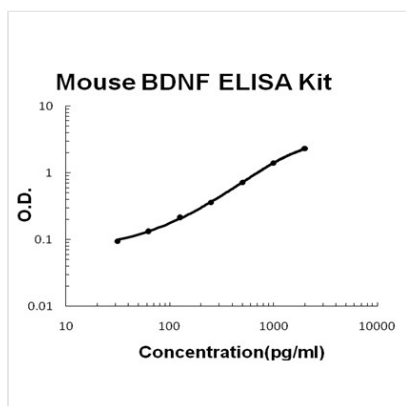
PRODUCT SYNONYMS

BDNF; Mouse BDNF PicoKine ELISA Kit; Brain-derived neurotrophic factor; brain-derived neurotrophic factor; Abrineurin; ANON2; Brain derived neurotrophic factor; BULN2; MGC34632; Neurotrophin; BDNF elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Mouse
Specificity	Natural and recombinant Mouse BDNF
Sequence Length	249
Samples	Cell culture supernates, cell lysates, tissue homogenates, serum and plasma (heparin, EDTA, citrate)
Assay Type	Quantitative Sandwich
Detection Range	31.2pg/ml-2000pg/ml
Sensitivity	<2pg/ml
Intra-assay Precision	Intra-Assay Precision (Precision within an assay) Three samples of known concentration were tested on one plate to assess intra-assay precision
Inter-assay Precision	Inter-Assay Precision (Precision between assays) Three samples of known concentration were tested in separate assays to assess inter-assay precision.
Preparation and Storage	Store at 4 degree C for 6 months, at -20 degree C for 12 months. Avoid multiple freeze-thaw cycles (Shipped with wet ice.)

IMAGES



Standard Curve (Sample)

Mouse BDNF PicoKine ELISA Kit standard curve

ADDITIONAL INFORMATION

Related Product Information for BDNF elisa kit	Principle of the Assay: Mouse BDNF ELISA Kit was based on standard sandwich enzyme-linked immune-sorbent assay technology. A monoclonal antibody from rat specific for BDNF has been precoated onto 96-well plates. Standards(Expression system for standard: sf21; Immunogen sequence: H129-R247) and test samples are added to the wells, a biotinylated detection polyclonal antibody from goat specific for BDNF is added subsequently and then followed by washing with PBS or TBS buffer. Avidin-Biotin- Peroxidase Complex was added and unbound conjugates were washed away with PBS or TBS buffer. HRP substrate TMB was used to visualize HRP enzymatic reaction. TMB was catalyzed by HRP to produce a blue color product that changed into yellow after adding acidic stop solution. The density of yellow is proportional to the Mouse BDNF amount of sample captured in plate. Background/Introduction: 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.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	114901
NCBI GeneID	12064
UniProt Accession #	P21237
Molecular Weight	28,123 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; anorexia BDNF
UniProt Protein Name	Brain-derived neurotrophic factor
UniProt Gene Name	Bdnf
UniProt Synonym Gene Names	BDNF
UniProt Entry Name	BDNF_MOUSE

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://www.aaabiotech.com/mouse-elisa-kits/bdnf/45215>