

BDNF elisa kit

Horse equine BDNF PicoKine ELISA Kit

CATALOG # AAA124753	REACTIVITY Equine There is no detectable cross-reactivity with other relevant proteins.	APPLICATIONS ELISA
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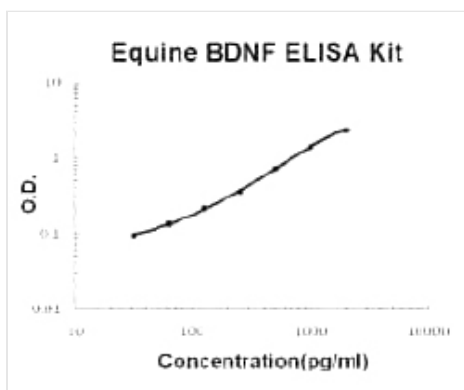
PRODUCT SYNONYMS

BDNF; Horse equine BDNF PicoKine ELISA Kit; Brain-derived neurotrophic factor; Abrineurin; BDNF elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Equine There is no detectable cross-reactivity with other relevant proteins.
Specificity	Natural and recombinant 216 Horse equine BDNF
Sequence Length	276
Assay Type	Quantitative Sandwich
Detection Range	31.2pg/ml-2000pg/ml
Sensitivity	<15pg/ml
Applicable Applications for BDNF elisa kit	ELISA
Intra-assay Precision	Intra-Assay Precision (Precision within an assay) Three samples of known concentration weretested on one plate to assess intra-assay precision
Inter-assay Precision	Inter-Assay Precision (Precision between assays) Three samples of known concentration weretested 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.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for BDNF elisa kit	Principle of the Assay: 216 Horse equine BDNF ELISA Kit was based on standard sandwich enzyme-linked immune- sorbent assay technology. A monoclonal antibody from mouse specific for Horse equine 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 Horse equine 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 216 Horse equine BDNF amount of sample captured in plate. 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 horse equine 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 horse equine BDNF to chromosome 11, band p13.
Product Categories/Family for BDNF elisa kit	Neuroscience; Neurology Process; Growth and Development; neurotrophins; Neuroscience; Neurodegenerative Disease; huntington's disease; Alzheimer's Disease; Cardiovascular; Atherosclerosis; Diabetes Associated; Thrombosis; Metabolism; Types of Disease; dia

NCBI AND UNIPROT INFORMATION

NCBI GI #	219842288
NCBI GeneID	627
NCBI Accession #	NP_001137277.1
NCBI GenBank Nucleotide #	NM_001143805.1
UniProt Accession #	P23560; Q598Q1; Q6DN19; Q6YNR2; Q6YNR3; Q9BYY7; Q9UC24; A7LA85; A7LA92; D3DQZ2
Molecular Weight	27818 MW
NCBI Official Full Name	brain-derived neurotrophic factor isoform a preproprotein
NCBI Official Synonym Full Names	brain derived neurotrophic factor
NCBI Official Symbol	BDNF
NCBI Official Synonym Symbols	ANON2; BULN2
NCBI Protein Information	brain-derived neurotrophic factor
UniProt Protein Name	Brain-derived neurotrophic factor
UniProt Gene Name	BDNF
UniProt Synonym Gene Names	BDNF

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.