

Human BDNF ELISA Kit | BDNF elisa kit

Human BDNF Quick ELISA Kit

CATALOG #
AAA125847

REACTIVITY
Human

PRODUCT SYNONYMS

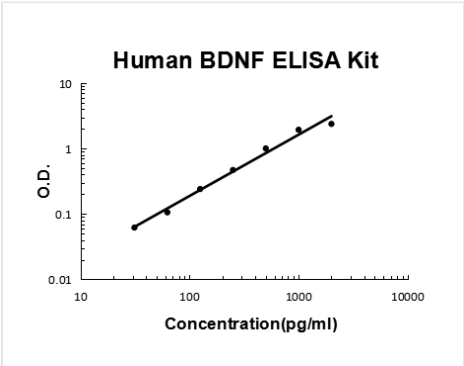
BDNF; Human BDNF Quick ELISA Kit; Brain-derived neurotrophic factor; Abreineurin [Cleaved into: BDNF precursor form|ProBDNF]; brain derived neurotrophic factor; BDNF elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Natural and recombinant Human BDNF
Assay Type	Colorimetric sandwich
Samples	cell culture supernatants, cell lysates, serum and plasma (heparin, EDTA, citrate)
Detection Range	31.2pg/ml-2,000pg/ml
Sensitivity	<15pg/ml
Capture/Detection Antibodies	Capture antibody- monoclonal antibody from mouse Detection antibody- polyclonal antibody from goat
Sample Data	Concentration(pg/ml) 0 31.2 62.5 125 250 500 1000 2000 O.D. 0.014 0.076 0.120 0.255 0.485 1.020 1.955 2.401
Intra-Assay Precision	Sample 1 2 3 n 16 16 16 Mean(pg/ml) 50 234 1124 Standard deviation 3.6 11.23 55.07 CV(%) 7.2% 4.8% 4.9%
Inter-Assay Precision	Sample 1 2 3 n 24 24 24 Mean(pg/ml) 48 254 987 Standard deviation 4.17 13.97 63.16 CV(%) 8.7% 5.5% 6.4%
Reproducibility	To assay reproducibility, three samples with differing target protein concentrations were assayed using four different lots. Lots: Lot 1 (pg/ml) Lot 2 (pg/ml) Lot 3 (pg/ml) Lot 4 (pg/ml) Mean (pg/ml) Standard Deviation CV (%) Sample 1: 50 55 52 52 52 2.7 5.2% Sample 2: 234 198 232 224 169 11.32 6.7% Sample 3: 1124 1121 884 1142 1067 76.82 7.2% *number of samples for each test n=16.
Cross Reactivity	There is no detectable cross-reactivity with other relevant proteins.
Immunogen	Expression system for standard: NS0; Immunogen sequence: H129-R247
Anticoagulant	heparin, EDTA or citrate
Benefits	The Quick ELISA kits, assay takes less than 1.5 hours. Detect Human BDNF with <15pg/ml sensitivity. Format: 96-well plate with removable strips. This is a TMB colorimetric sandwich ELISA kit with short assay time and quick experiment set up.

Principle	Human BDNF Pre-Coated ELISA (Enzyme-Linked Immunosorbent Assay) kit is a solid phase immunoassay specially designed to measure Human BDNF with a 96-well strip plate that is pre-coated with mouse monoclonal antibody specific for BDNF. The detection antibody is a HRP linked goat polyclonal antibody specific for BDNF. The kit contains recombinant Human BDNF with immunogen: Expression system for standard: NS0; Immunogen sequence: H129-R247. The kit is analytically validated with ready to use reagents. To measure Human BDNF, add standards and samples to the wells, then add HRP linked detection antibody. Wash the wells with PBS or TBS buffer, and add TMB. TMB is substrate to HRP and will be catalyzed to produce a blue color product, which changes into yellow after adding acidic stop solution. The density of the yellow product is linearly proportional to Human BDNF in the sample. Read the density of the yellow product in each well using a plate reader, and benchmark the sample wells' readings against the standard curve to determine the concentration of Human BDNF in the sample.
Assay Procedure Step 1	2000pg/ml, 1000pg/ml, 500pg/ml, 250pg/ml, 125pg/ml, 62.5pg/ml, 31.25pg/ml
TMB Incubation Time	15
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



Application Data

ADDITIONAL INFORMATION

Related Product Information for BDNF elisa kit	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.
Product Categories/Family for BDNF elisa kit	ELISA kits

NCBI AND UNIPROT INFORMATION

NCBI GI #	114900
NCBI GeneID	627
UniProt Accession #	P23560; Q598Q1; Q6DN19; Q6YNR2; Q6YNR3; Q9BYY7; Q9UC24; A7LA85; A7LA92; D3DQZ2

Molecular Weight	247
NCBI Official Full Name	Brain-derived neurotrophic factor
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; abrineurin; neurotrophin
UniProt Protein Name	Brain-derived neurotrophic factor
UniProt Gene Name	BDNF
UniProt Synonym Gene Names	BDNF
UniProt Entry Name	BDNF_HUMAN

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/human-elisa-kits/bdnf/125847>