

Rat BDNF ELISA Kit | Bdnf elisa kit

Rat BDNF Quick ELISA Kit

CATALOG #
AAA125848

REACTIVITY
Rat

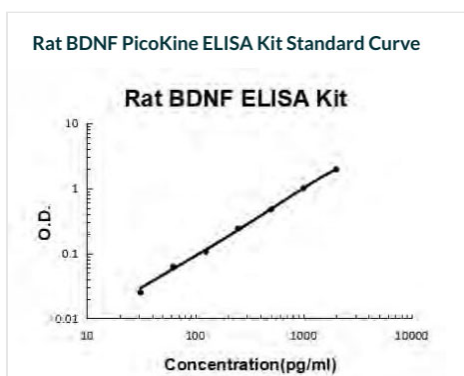
PRODUCT SYNONYMS

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

PRODUCT SPECIFICATIONS

Reactivity	Rat
Specificity	Natural and recombinant Rat Bdnf
Samples	Cell culture supernatants, cell lysates, serum and plasma (heparin, EDTA, citrate)
Detection Range	31.2 pg/ml - 2,000 pg/ml
Sensitivity	<15 pg/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 across 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)

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 Picokine™ Rat Bdnf Pre-Coated ELISA (Enzyme-Linked Immunosorbent Assay) kit is a solid phase immunoassay specially designed to measure Rat 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 Rat Bdnf with immunogen: Expression system for standard: NS0; Immunogen sequence: H129-R247. The kit is analytically validated with ready-to-use reagents. To measure Rat 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 an HRP substrate and will be catalyzed to produce a blue color product, which changes into yellow after adding the acidic stop solution. The absorbance of the yellow product is linearly proportional to Rat Bdnf in the sample. Read the absorbance 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 Rat Bdnf in the sample.
Product Categories/Family for Bdnf elisa kit	ELISA kits

NCBI AND UNIPROT INFORMATION

NCBI GI #	114904
NCBI GeneID	24225
UniProt Accession #	P23363; Q53YL8
Molecular Weight	28,109 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; 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.