

Bovine Brain-Derived Neurotrophic Factor High-Sensitivity ELISA Kit | BDNF elisa kit

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CATALOG #
AAA37873

REACTIVITY
Bovine

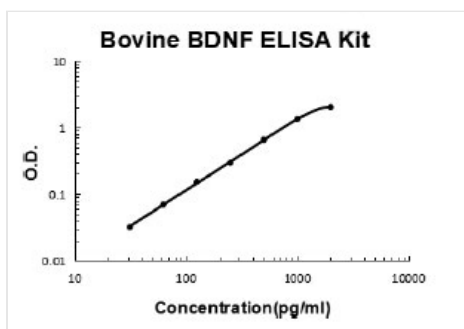
PRODUCT SYNONYMS

Brain-Derived Neurotrophic Factor High-Sensitivity; Bovine Brain-Derived Neurotrophic Factor High-Sensitivity ELISA Kit; BDNF elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Bovine
Specificity	Natural and recombinant Bovine BDNF
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 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)

ADDITIONAL INFORMATION

Related Product Information for BDNF elisa kit

Background: Bone morphogenetic protein 5 is a protein that in humans is encoded by the BMP5 gene.^{1,2,3} The protein encoded by this gene is member of the TGFβ superfamily. Bone morphogenetic proteins are known for their ability to induce bone and cartilage development. BMP5 may play a role in certain cancers. Like other BMP's BMP5 is inhibited by chordin and noggin. It is expressed in the trabecular meshwork and optic nerve head and may have a role in the development and normal function. It is also expressed in the lung and liver. BMP-5 is mapped on Bovine chromosome 6.4 The standard used in this kit is recombinant BMP-5 with the monomer molecular mass of 18KDa.

Principle of the Assay: To measure Bovine BDNF, add standards and samples to the wells, then add the biotinylated detection antibody. Wash the wells with PBS or TBS buffer, and add Avidin-Biotin-Peroxidase Complex (ABC-HRP). Wash away the unbound ABC-HRP 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 at 450nm is linearly proportional to Bovine 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 Bovine BDNF in the sample.

Intended Uses: This kit is a solid-phase immunoassay specially designed to measure Bovine BDNF with a 96-well strip plate that is pre-coated with antibody specific for BDNF. The detection antibody is a biotinylated antibody specific for BDNF. The capture antibody is monoclonal antibody from mouse and the detection antibody is monoclonal antibody from mouse. The kit includes Bovine BDNF protein as standards.

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/bovine-ovine-elisa-kits/brain-derived-neurotrophic-factor-high-sensitivity/37873>