

Rat Brain Natriuretic Peptide (BNP) ELISA Kit | BNP elisa kit

Rat Brain Natriuretic Peptide (BNP) Wide-range ELISA Kit

CATALOG # AAA189170	REACTIVITY Rat	APPLICATIONS ELISA
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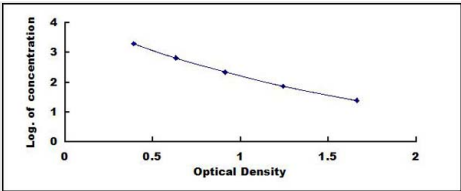
PRODUCT SYNONYMS

Brain Natriuretic Peptide (BNP); Rat Brain Natriuretic Peptide (BNP) Wide-range ELISA Kit; Brain Natriuretic Peptide; GC-B; B-Type Natriuretic Peptide; Ventricular Natriuretic Peptide; Gamma-brain natriuretic peptide; Brain natriuretic peptide 32; BNP elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Rat
Specificity	This assay has high sensitivity and excellent specificity for detection of Wide-range Brain Natriuretic Peptide (BNP). No significant cross-reactivity or interference between Wide-range Brain Natriuretic Peptide (BNP) and analogues was observed.
Sequence Length	121
Assay Type	Competitive Inhibition
Samples	Serum, plasma, tissue homogenates, cell lysates, cell culture supernates and other biological fluids
Detection Range	24.69-2,000pg/mL
Sensitivity	The minimum detectable dose of this kit is typically less than 9.37pg/mL
Applicable Applications for BNP elisa kit	ELISA
Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level Wide-range Brain Natriuretic Peptide (BNP) were tested 20 times on one plate, respectively. Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level Wide-range Brain Natriuretic Peptide (BNP) were tested on 3 different plates, 8 replicates in each plate. CV(%) = SD/meanX100 Intra-Assay: CV<10% Inter-Assay: CV<12%
Test Principle	This assay employs the competitive inhibition enzyme immunoassay technique. A monoclonal antibody specific to Wide-range Brain Natriuretic Peptide (BNP) has been pre-coated onto a microplate. A competitive inhibition reaction is launched between biotin labeled Wide-range Brain Natriuretic Peptide (BNP) and unlabeled Wide-range Brain Natriuretic Peptide (BNP) (Standards or samples) with the pre-coated antibody specific to Wide-range Brain Natriuretic Peptide (BNP). After incubation the unbound conjugate is washed off. Next, avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. The amount of bound HRP conjugate is reverse proportional to the concentration of Wide-range Brain Natriuretic Peptide (BNP) in the sample. After addition of the substrate solution, the intensity of color developed is reverse proportional to the concentration of Wide-range Brain Natriuretic Peptide (BNP) in the sample.
Preparation and Storage	The stability of kit is determined by the loss rate of activity. The loss rate of this kit is less than 5% within the expiration date under appropriate storage condition. To minimize extra influence on the performance, operation procedures and lab conditions, especially room temperature, air humidity, incubator temperature should be strictly controlled. It is also strongly suggested that the whole assay is performed by the same operator from the beginning to the end.

IMAGES



Standard Curve (Sample)

NCBI AND UNIPROT INFORMATION

NCBI GI #	13928738
NCBI GeneID	25105
NCBI Accession #	NP_113733.1
NCBI GenBank Nucleotide #	NP_113733.1
UniProt Accession #	P13205
NCBI Official Full Name	natriuretic peptides B
NCBI Official Synonym Full Names	natriuretic peptide B
NCBI Official Symbol	Nppb
NCBI Official Synonym Symbols	BNP; Bnf
NCBI Protein Information	natriuretic peptides B
UniProt Protein Name	Natriuretic peptides B
UniProt Gene Name	Nppb
UniProt Entry Name	ANFB_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.

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Online datasheet: <https://www.aaabiotech.com/rat-elisa-kits/brain-natriuretic-peptide-bnp/189170>