

Rat Brain Natriuretic Peptide ELISA Kit | BNP elisa kit

Rat Brain Natriuretic Peptide ELISA Kit

CATALOG #
AAA101606

REACTIVITY
Rat

PRODUCT SYNONYMS

Brain Natriuretic Peptide; Rat Brain Natriuretic Peptide ELISA Kit; BNP (Brain Natriuretic Peptide)/NPPB/GC-B/B-Type Natriuretic Peptide/Natriuretic Peptide Precursor B; BNP elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Rat
Specificity	This assay has high sensitivity and excellent specificity for detection of BNP. No significant cross-reactivity or interference between BNP and analogues was observed.
Sequence Length	1
Assay Type	Sandwich ELISA, Double Antibody
Samples	Serum, Plasma, Cell Culture Supernatant, cell or tissue lysate, Other liquid samples
Detection Range	31.25-2000pg/ml
Sensitivity	18.75pg/ml
Intra-assay Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level BNP were tested 20 times on one plate, respectively. Intra-Assay: CV<8%
Inter-assay Precision	Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level BNP were tested on 3 different plates, 8 replicates in each plate. CV (%) = SD/meanX100. Inter-Assay: CV<10%
Preparation and Storage	Store entire kit at 2-8C for short-term. For longer-term, please store the microplate & standard at -20C, while the remaining reagents can be stored at 2-8C

IMAGES

Typical Data & Standard Curve

Results of a typical standard operation of a BNP ELISA Kit are listed below. This standard curve was generated at our lab for demonstration purpose only. Users shall obtain standard curve as per experiment by themselves. (N/A=not applicable)

X	pg/ml	0	31.25	62.5	125	250	500	1000	2000
Y	OD450	0.092	0.195	0.32	0.613	1.206	1.998	2.951	3.641

Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for BNP elisa kit

Principle of the Assay: This kit was based on sandwich enzyme-linked immune-sorbent assay technology. Anti-BNP antibody was pre-coated onto 96-well plates. And the biotin conjugated anti-BNP antibody was used as detection antibodies. The standards, test samples and biotin conjugated detection antibody were added to the wells subsequently, and washed with wash buffer. HRP-Streptavidin was added and unbound conjugates were washed away with wash buffer. TMB substrates were 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 BNP amount of sample captured in plate. Read the O.D. absorbance at 450nm in a microplate reader, and then the concentration of BNP can be calculated.

NCBI AND UNIPROT INFORMATION

NCBI GI #	4433127
NCBI GeneID	4879
Molecular Weight	14,726 Da
NCBI Official Full Name	brain natriuretic peptide, partial
NCBI Official Synonym Full Names	natriuretic peptide B
NCBI Official Symbol	NPPB
NCBI Official Synonym Symbols	BNP
NCBI Protein Information	natriuretic peptides B
UniProt Protein Name	Natriuretic peptides B
UniProt Gene Name	NPPB
UniProt Synonym Gene Names	BNP(1-32); BNP-32
UniProt Entry Name	ANFB_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://stage.aaabiotech.com/bnp-rat-elisa-kits/brain-natriuretic-peptide/101606>