

Mouse Atrial Natriuretic Peptide ELISA Kit | ANP elisa kit

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CATALOG #
AAA102289

REACTIVITY
Mouse

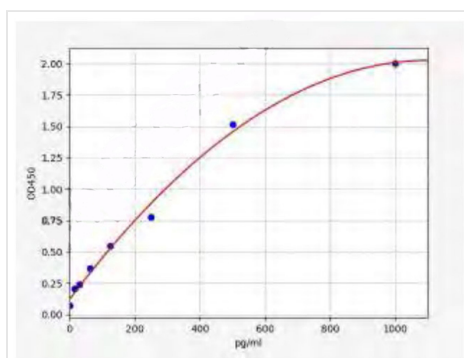
PRODUCT SYNONYMS

Atrial Natriuretic Peptide; Mouse Atrial Natriuretic Peptide ELISA Kit; ANP/NPPA/ANF/Cardionatrin/NPPA/PND/ANF/ANPatriopeptin/ATFB6/atrial natriuretic factor/Atrial natriuretic peptide/CDD-ANF/natriuretic peptide A/natriuretic peptide precursor A/PNDcardionatrin/prepronatriodilatin/Prepronatriodilatin; ANP elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Mouse
Specificity	Specifically recognize ANP, no obvious cross reaction with other analogues
Sequence Length	151
Assay Type	Sandwich
Samples	Serum, plasma, cell culture supernatant and other biological samples
Detection Range	15.625-1000pg/ml
Sensitivity	9.375pg/ml
Intra-assay Precision	Intra-assay Precision: samples with low, medium and high concentration are tested 20 times on same plate.
Inter-assay Precision	Inter-assay Precision: samples with low, medium and high concentration are tested 20 times on three different plates.
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



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for ANP elisa kit	Background: Atrial natriuretic polypeptide, alpha (ANP), atrial natriuretic factor (ANF), or atriopeptin, is a protein (polypeptide) hormone secreted by heart muscle cells. It is involved in the homeostatic control of body water, sodium, potassium and fat (adiposity). It is released by muscle cells in the upper chambers (atria) of the heart (atrial myocytes), in response to high blood pressure. ANP acts to reduce the water, sodium and adipose loads on the circulatory system, thereby reducing blood pressure. Atrial Natriuretic Peptide has the potential for cardiovascular diseases research. Principle of the Assay: This kit was based on sandwich enzyme-linked immune-sorbent assay technology. Anti ANP antibody was precoated onto the 96-well plate. The biotin conjugated anti ANP antibody was used as the detection antibody. The standards and pilot samples were added to the wells subsequently. After incubation, unbound conjugates were removed by wash buffer. Then, biotinylated detection antibody was added to bind with ANP conjugated on coated antibody. After washing off unbound conjugates, HRP-Streptavidin was added. After a third washing, TMB substrates were added to visualize HRP enzymatic reaction. TMB was catalyzed by HRP to produce a blue color product that turned yellow after adding a stop solution. Read the O.D. absorbance at 450nm in a microplate reader. The concentration of ANP in the sample was calculated by drawing a standard curve. The concentration of the target substance is proportional to the OD450 value.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	178638
NCBI GeneID	4878
Molecular Weight	16,708 Da
NCBI Official Full Name	atrial natriuretic peptide
NCBI Official Synonym Full Names	natriuretic peptide A
NCBI Official Symbol	NPPA
NCBI Official Synonym Symbols	ANF; ANP; CDD; CDP; PND; ATFB6; ATRST2; CDD-ANF
NCBI Protein Information	natriuretic peptides A
UniProt Protein Name	Natriuretic peptides A
UniProt Gene Name	NPPA
UniProt Synonym Gene Names	ANP; PND; CDD; CDP; ANF; ANP
UniProt Entry Name	ANF_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/anp-mouse-elisa-kits/atrial-natriuretic-peptide/102289>