

Rat Atrial Natriuretic Peptide (ANP) ELISA Kit | ANP elisa kit

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CATALOG #
AAA147199

REACTIVITY
Rat

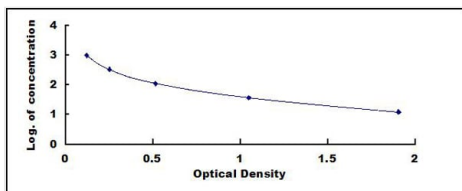
PRODUCT SYNONYMS

Atrial Natriuretic Peptide (ANP); Rat Atrial Natriuretic Peptide (ANP) ELISA Kit; ANH; ANF; PND; NPPA; CDD-ANF; Atrial Natriuretic Factor; Atrial Natriuretic Hormone; Atriopeptin; Natriuretic Peptide Precursor A; Prepronatriodilatin; Cardiodilatin-related peptide; ANP elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Rat
Specificity	This assay has high sensitivity and excellent specificity for detection of Atrial Natriuretic Peptide (ANP). No significant cross-reactivity or interference between Atrial Natriuretic Peptide (ANP) and analogues was observed.
Sequence Length	152
Assay Type	Competitive Inhibition
Samples	Serum, Plasma, Tissue homogenates, Cell lysates, Cell culture supernates and other biological fluids
Detection Range	12.35-1,000pg/mL
Sensitivity	5.23pg/mL
Application	Enzyme-linked immunosorbent assay for Antigen Detection.
Intra-assay Precision (Precision within an assay)	3 samples with low, middle and high level Atrial Natriuretic Peptide (ANP) were tested 20 times on one plate, respectively.
Inter-assay Precision (Precision between assays)	3 samples with low, middle and high level Atrial Natriuretic Peptide (ANP) were tested on 3 different plates, 8 replicates in each plate.
CV(%) =	SD/meanX100
Intra-Assay	CV<10%
Inter-Assay	CV<12%
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)

ADDITIONAL INFORMATION

Related Product Information for ANP elisa kit	This assay employs the competitive inhibition enzyme immunoassay technique. A monoclonal antibody specific to Atrial Natriuretic Peptide (ANP) has been pre-coated onto a microplate. A competitive inhibition reaction is launched between biotin labeled Atrial Natriuretic Peptide (ANP) and unlabeled Atrial Natriuretic Peptide (ANP) (Standards or samples) with the pre-coated antibody specific to Atrial Natriuretic Peptide (ANP). 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 Atrial Natriuretic Peptide (ANP) in the sample. After addition of the substrate solution, the intensity of color developed is reverse proportional to the concentration of Atrial Natriuretic Peptide (ANP) in the sample.
Product Categories/Family for ANP elisa kit	Endocrinology; Cardiovascular biology; Hormone metabolism

NCBI AND UNIPROT INFORMATION

NCBI GI #	6981278
NCBI GeneID	24602
NCBI Accession #	NP_036744.1
NCBI GenBank Nucleotide #	NM_012612.2
UniProt Accession #	P01161
Molecular Weight	16,556 Da
NCBI Official Full Name	natriuretic peptides A
NCBI Official Synonym Full Names	natriuretic peptide A
NCBI Official Symbol	Nppa
NCBI Official Synonym Symbols	ANF; ANP; Pnd; RATANF
NCBI Protein Information	natriuretic peptides A
UniProt Protein Name	Natriuretic peptides A
UniProt Gene Name	Nppa
UniProt Synonym Gene Names	ANF; ANP

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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/rat-elisa-kits/atrial-natriuretic-peptide-anp/147199>