

## ARG81128 Rat Atrial Natriuretic Peptide (ANP) ELISA Kit

Package: 96 wells

Store at: 4°C

### Summary

Product Description	ARG81128 Rat Atrial Natriuretic Peptide (ANP) ELISA Kit is an Enzyme Immunoassay kit for the quantification of Rat Atrial Natriuretic Peptide in serum, plasma, cell culture and tissue extract.
Tested Reactivity	Rat
Tested Application	ELISA
Target Name	ANP / Atrial Natriuretic Peptide
Conjugation	HRP
Conjugation Note	Substrate: TMB and read at 450 nm
Sensitivity	6.7 pg/ml
Sample Type	Serum, plasma, cell culture and tissue extract
Standard Range	7.8 - 2000 pg/ml
Sample Volume	50 µl
Alternate Names	Natriuretic peptides A; ANF; Atriopeptin II; RATANF; Prepronatriodilatin; ANP; Atrial natriuretic peptide; Atriopeptin III; Pnd; Atriopeptin I

### Application Instructions

Assay Time	~ 5 hours
------------	-----------

### Properties

Form	96 well
Storage instruction	Store the kit at 2-8°C. Keep microplate wells sealed in a dry bag with desiccants. Do not expose test reagents to heat, sun or strong light during storage and usage. Please refer to the product user manual for detail temperatures of the components.
Note	For laboratory research only, not for drug, diagnostic or other use.

### Bioinformation

Database links	<a href="#">GeneID: 24602 Rat</a> <a href="#">Swiss-port # P01161 Rat</a>
Gene Symbol	Nppa
Gene Full Name	natriuretic peptide A
Background	The protein encoded by this gene belongs to the natriuretic peptide family. Natriuretic peptides are implicated in the control of extracellular fluid volume and electrolyte homeostasis. This protein is synthesized as a large precursor (containing a signal peptide), which is processed to release a peptide from the N-terminus with similarity to vasoactive peptide, cardiodilatin, and another peptide from the C-terminus with natriuretic-diuretic activity. Mutations in this gene have been associated with atrial

fibrillation familial type 6. This gene is located adjacent to another member of the natriuretic family of peptides on chromosome 1. [provided by RefSeq, Oct 2015]

Function

Hormone playing a key role in cardiovascular homeostasis through regulation of natriuresis, diuresis, and vasodilation. Also plays a role in female pregnancy by promoting trophoblast invasion and spiral artery remodeling in uterus. Specifically binds and stimulates the cGMP production of the NPR1 receptor. Binds the clearance receptor NPR3 (By similarity). [UniProt]

Highlight

Related products:

[Atrial Natriuretic Peptide antibodies:](#) [Atrial Natriuretic Peptide ELISA Kits:](#)

New ELISA data calculation tool:

[Simplify the ELISA analysis by GainData](#)

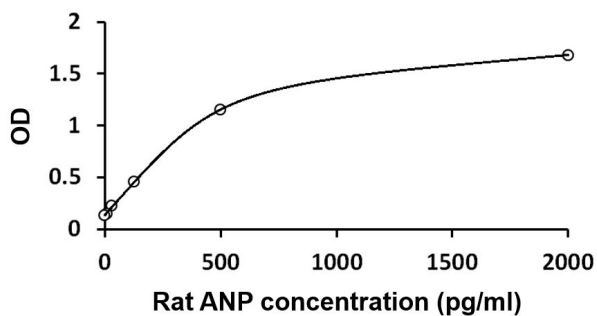
PTM

Cleaved by CORIN upon secretion to produce the functional hormone.

Atrial natriuretic factor: Cleaved by MME. The cleavage initiates degradation of the factor and thereby regulate its activity.

## Images

---



ARG81128 Rat Atrial Natriuretic Peptide (ANP) ELISA Kit standard curve image

ARG81128 Rat Atrial Natriuretic Peptide (ANP) ELISA Kit results of a typical standard run with optical density reading at 450 nm.