

Catalog Number: Eg1073

## Basic Information

**Species:**  
Rat**Purity:**  
>90 %, SDS-PAGE**Tag:**  
His Tag

## Technical Specifications

**Purity:**  
>90 %, SDS-PAGE**Endotoxin Level:**  
<0.1 EU/  $\mu$ g protein, LAL method**Source:**  
HEK293-derived Rat Nppa protein Asn25-Tyr150 (Accession# P01161) with a His tag at the N-terminus.**GeneID:**  
24602**Accession:**  
P01161**Predicted Molecular Mass:**  
14.7 kDa**SDS-PAGE:**  
15-17 kDa, reducing (R) conditions**Formulation:**  
Lyophilized from 0.22  $\mu$ m filtered solution in PBS, pH 7.4. Normally 5% trehalose and 5% mannitol are added as protectants before lyophilization.

## Biological Activity

Not tested

## Storage and Shipping

**Storage:**

It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

- Until expiry date, -20°C to -80°C as lyophilized proteins.
- 3 months, -20°C to -80°C under sterile conditions after reconstitution.

**Shipping:**

The product is shipped at ambient temperature. Upon receipt, store it immediately at the recommended temperature.

## Reconstitution

Briefly centrifuge the tube before opening. Reconstitute at 0.1-0.5 mg/mL in sterile water.

## Background

Natriuretic peptide precursor-A (NPPA) is an early and specific marker for functional myocardium of the embryonic heart. 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. NPPA is expressed primarily in the heart, where the expression level is higher in atria than ventricles. Low levels of ANP expression have been detected in other tissues, including the lung, aorta, brain, adrenal gland, kidney and uterus.

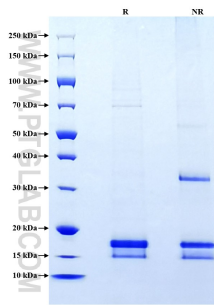
## References

- 1.Kotaska, K. et al. (2010) Biomed PAP. 154(1):21-4.
- 2.Locatelli, F. et al. (2010) Nephrol Dial Transpl. 25(2):347-9.
- 3.Kukacka, J. et al. (2006) FASEB J. 20(5)

## Synonyms

Nppa, ANF, ANP, Pnd, RATANF

## Selected Validation Data



Purity of Recombinant Rat Nppa was determined by SDS-PAGE. The protein was resolved in an SDS-PAGE in reducing (R) and non-reducing (NR) conditions and stained using Coomassie blue.

For technical support and original validation data for this product please contact

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