

For Research Use Only

Recombinant Rat Nppa protein (His Tag)



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/ μ 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 μ 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

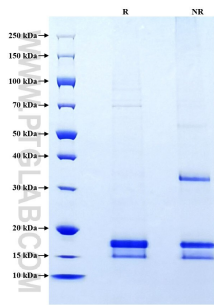
Nppa, ANF, ANP, Pnd, RATANF

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

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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.