

# Recombinant Human BNP protein (His Tag)

Catalog Number: Eg1029

## Basic Information

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

## Technical Specifications

**Purity:**

&gt;90 %, SDS-PAGE

**Endotoxin Level:**

&lt;0.1 EU/ µg protein, LAL method

**Source:**

HEK293-derived Human BNP protein His27-His134 (Accession# P16860) with a his tag at the N-terminus.

**GeneID:**

4879

**Accession:**

P16860

**Predicted Molecular Mass:**

13.0 kDa

**SDS-PAGE:**

16-26 kDa, reducing (R) conditions

**Formulation:**

Lyophilized from 0.22 µm 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

NPPB, also known as B-type natriuretic peptide (BNP), is a cardiac hormone that is secreted mainly in the ventricles in response to increased wall stress. The protein undergoes two cleavage events, one within the cell and a second after secretion into the blood. The protein's biological actions include natriuresis, diuresis, vasorelaxation, inhibition of renin and aldosterone secretion, and a key role in cardiovascular homeostasis. BNP is a marker of systolic and diastolic dysfunction and a strong predictor of mortality in heart failure patients.

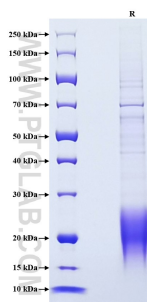
## References

1. K J Koller, et al. (1991) Science. 252(5002):120-3.
2. Denise M Heublein, et al. (2007) Hypertension. 49(5):1114-9.
3. Brenda K Huntley, et al. (2015) Circ Heart Fail. 8(1):89-97.

## Synonyms

Natriuretic peptides B, NPPB, BNP(1-32), BNP(1-28), BNP(1-29)

## Selected Validation Data



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

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

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