

# Recombinant Human Brain Natriuretic Peptide/NT-proBNP Protein

Catalog No.: RP00703 **Recombinant**

## Sequence Information

Species	Gene ID	Swiss Prot
Human	4879	P16860

### Tags

C-hFC

### Synonyms

NPPB;BNP

## Product Information

Source	Purification
HEK293 cells	> 95% by SDS-PAGE.

Calculated MW	Observed MW
34.60 kDa	35-60 kDa

### Endotoxin

< 0.01 EU/μg

### Formulation

Lyophilized from a 0.2 μm filtered solution of PBS, pH7.4. Contact us for customized product form or formulation.

### Reconstitution

Centrifuge the tube before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

## Contact

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## Background

Brain-type Natriuretic Peptide (BNP) is a nonglycosylated peptide that is produced predominantly by ventricular myocytes and belongs to the natriuretic peptide family. Proteolytic cleavage of the 12 kDa BNP precursor gives rise to N-terminal Pro BNP (NT-proBNP) and mature BNP. N-terminal proB-type natriuretic peptide (NT-proBNP), a useful marker of heart failure (HF), is considered to be secreted mainly from the ventricle, increased serum NT-proBNP levels are also encountered in conditions such as atrial fibrillation (AF) and atrial septal defect in patients without HF.

## Basic Information

### Description

Recombinant Human Brain Natriuretic Peptide/NT-proBNP Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (His27-Pro104) of human Brain Natriuretic Peptide/BNP (Accession #P16860) fused with a hFC tag at the C-terminus.

### Bio-Activity

### Storage

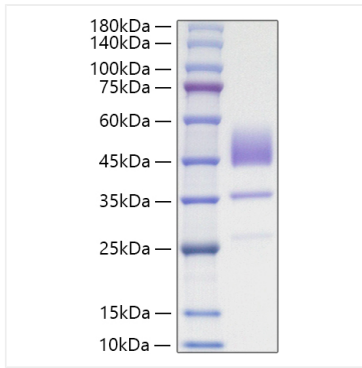
Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt.

After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.

Avoid repeated freeze/thaw cycles.

## Validation Data

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Recombinant Human Brain Natriuretic Peptide/BNP Protein was determined by SDS-PAGE with Coomassie Blue, showing a band at 35-60 kDa.