

## 41660. Human N-terminal B-type Natriuretic Peptide (NT-proBNP)

Origin:	Recombinant	Cat. No.:	41660
Tag:	N-terminal 6xHis	Size:	0.1 mg
Source:	E.coli	Purity:	>95%
	Amino terminal brain		
Other names:	natriuretic peptide Precursor	Species:	Human

### Description

Expressed in E.coli with total 112 AA. Mw: 12.6 KDa (calculated). N-terminal 6xHis-tag and TEV cleavage site, 36 extra AA (highlighted). Recombinant antigen for research use or manufacturing only.

### Introduction to the Molecule

N-terminal pro-brain (or B-type) natriuretic peptide (NT-proBNP) is produced predominately by the cardiac ventricular myocytes. NT-proBNP is released in response to volume expansion and filling pressure and is involved in maintaining intravascular volume homeostasis. Elevated plasma levels of BNP and NT-proBNP have been observed at times of cardiac stress and damage.

### Amino Acid Sequence

**MRGSHHHHHHGMASMTGGQQMGRDLYDDDDKDRWGSHPLGSPGSASDLETSGLQEQRNH**  
**LQGLSELQVEQTSLEPLQESPRPTGVWKSREVATEGIRGHRKMVLYTLRAPR**

**Endotoxin Level:** <0.2 EU/ug.

**Applications:** Standard ELISA test, Western Blot.

**Formulation:** Lyophilized at 1 mg/mL in PBS.

**Reconstitution:** Add deionized water to prepare a working stock solution of approximately 1 mg/mL and let the lyophilized pellet dissolve completely.

**Storage:** Store lyophilized protein at  $-20^{\circ}\text{C}$ . Aliquot reconstituted protein and store at  $-80^{\circ}\text{C}$ . Avoid repeated freezing/thawing cycles.

### Quality Control Test

BCA to determine quantity of the protein.

SDS PAGE to determine purity of the protein.

### SDS-PAGE gel

