

# 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**

**MRGSHHHHHHGMASMTGGQQMGRDLYDDDDKDRWGS**HPLGSPGSASDLETSGLQEQRNH LQGKLSELQVEQTSLEPLQESPRPTGVWKSREVATEGIRGHRKMVLYTLRAPR

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

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

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

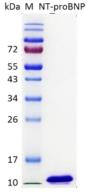
**Reconstitution:** Add deionized water to prepare a working stock solution of approximately 1 mg/mL and let the lyophilized pellet dissolve completely.

**Storage:** Store lyophilized protein at -20°C. Aliquot reconstituted protein and store at -80°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



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1