41790 Recombinant Human N-terminal Pro-Brain Natriuretic Peptide (hNT-proBNP)

Source: Expressed in *E.coli*
Tag: N-terminal 6xHis
Size: 100μg
Purity: >95%, determined by SDS-PAGE

Introduction to the Molecule

N-terminal pro-brain (or B-type) natriuretic peptide (NT-proBNP) is produced predominately by the cardiac ventricular myocytes. It 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

MRGSHHHHHHGMASMTGGQQMGRDLY DDDDKDRWGSHPLGSPGSASDLETSGLQE QRNHLQGKLSELQVEQTSLEPLQESPRPTGV WKSREVATEGIRGHRKMVLYTLRAPR

Note: 6xhis tag and EK cleavage site are highlighted

Formulation, Reconstitution and Storage

- Lyophilized at 1 mg/mL in NaCl 137mM, KCl 2.7mM, Na_2HPO_4 10mM, KH_2PO_4 1.8mM, pH 8.0.
- Add deionized water to prepare a working stock solution of approximately 1 mg/mL and let the lyophilized pellet dissolve completely.
- Store lyophilized protein at –20°C. Aliquot reconstituted protein and store at –80°C. Avoid repeated freezing /thawing cycles.

SDS-PAGE Gel