

Recombinant Human NT-pro-BNP

#R00178

Size: 100 µg/500 µg

Stability & Storage

Use a manual defrost freezer and avoid repeated freeze-thaw cycles.

- 12 months from date of receipt, -20 to -70 °C as supplied.
- 1 month, 2 to 8 °C under sterile conditions after reconstitution.
- 3 months, -20 to -70 °C under sterile conditions after reconstitution.



Warning: This product is intended for scientific research only. It is not to be used for medical or diagnostic procedures in humans or animals, nor as a food, cosmetic, or household product.

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-pro-BNP) and mature BNP. Plasma NT-proBNP is a marker for congestive heart failure, while mature BNP (aa 103- 134) promotes vasodilation and fluid and sodium excretion. Human BNP precursor shares 29% and 51% aa sequence identity with mouse and porcine BNP precursor, respectively.

AA Sequence

HPLGSPGSASDLETSGLQEQRNHLQGKLSLQVEQT
SLEPLQESPRPTGVWKSREVATEGIRGHRKMVLYTL
RAPR

Reconstitution

We recommend that this vial be briefly centrifuged prior

to opening to bring the contents to the bottom. Reconstitute in sterile distilled water or aqueous buffer containing 0.1 % BSA to a concentration of 0.1-1.0 mg/ml. Stock solutions should be apportioned into working aliquots and stored at ≤ -20 °C. Further dilutions should be made in appropriate buffered solutions.

Product Specification

Synonyms	Natriuretic peptides B, Gamma-brain natriuretic peptide
Accession	P16860
GeneID	4879
Unigene	Hs.219140.
Species	Human
Source	Escherichia coli.
Molecular Weight	Approximately 8.5 kDa, a single non-glycosylated polypeptide chain containing 76 amino acids.
Purity	> 98 % by SDS-PAGE and HPLC analyses.
Biological Activity	Bioassay data are not available.
Physical Appearance	Sterile Filtered White Lyophilized (freeze-dried) powder.
Formulation	Lyophilized from a 0.2 µm filtered concentrated solution in

20mM Tris, 150mM NaCl, 3%
Sucrose, 0.04% Tween 80,
pH8.0.

Endotoxin Less than 0.1 EU/μg of
rHuNT-pro-BNP as determined
by LAL method.
