

NTproBNP(1-76)

PRODUCT DESCRIPTION

NTproBNP(1-76) is a 64-amino-acid synthetic peptide. A synthetic peptide used as a research tool in biochemistry, pharmacology, and biomedical research. This peptide enables the study of protein-protein interactions, receptor binding, enzyme substrate specificity, and signal transduction pathways. Available in high purity (>=95% by HPLC) as a lyophilized powder for reconstitution in appropriate buffers.

PRODUCT SPECIFICATIONS

|                   |                                      |
|-------------------|--------------------------------------|
| Catalog Number    | BPT1747                              |
| Molecular Weight  | 6971.5251 Da                         |
| Molecular Formula | C297H480N92O102                      |
| Purity            | Peak Area by HPLC >=95%              |
| Form              | Lyophilized                          |
| Source            | Synthetic (Chemical Synthesis, SPPS) |
| Endotoxin         | N/A (Synthetic peptide)              |

AMINO ACID SEQUENCE

One-Letter Code:

HPLGSPGSASDLETSGLQEQRNHLQGKLSLELQVEQTSLEPLQESPRPTGVWKSREVATEGIRGH

Three-Letter Code:

H-His-Pro-Leu-Gly-Ser-Pro-Gly-Ser-Ala-Ser-Asp-Leu-Glu-Thr-Ser-Gly-Leu-Gln-Glu-Gln-Arg-Asn-His-Leu-Gln-Gly-Lys-L  
eu-Ser-Glu-Leu-Gln-Val-Glu-Gln-Thr-Ser-Leu-Glu-Pro-Leu-Gln-Glu-Ser-Pro-Arg-Pro-Thr-Gly-Val-Trp-Lys-Ser-Arg-Glu-  
Val-Ala-Thr-Glu-Gly-Ile-Arg-Gly-His-OH

RESEARCH APPLICATIONS

|                  |                                      |
|------------------|--------------------------------------|
| Application      | Receptor binding                     |
| Biomarker Target | Natriuretic Peptide Receptors        |
| Research Area    | Cardiovascular                       |
| Sub-category     | Natriuretic Peptides & Heart Failure |

STORAGE & HANDLING

|                      |                                                       |
|----------------------|-------------------------------------------------------|
| Storage Temperature  | -20 deg C                                             |
| Form                 | Lyophilized                                           |
| Stability            | Lyophilized product stable for 24 months at -20 deg C |
| Reconstitution       | Reconstitute in sterile water or appropriate buffer   |
| After Reconstitution | Aliquot and store at -20 to -80 deg C                 |
| Avoid                | Repeated freeze-thaw cycles                           |

AVAILABLE SIZES

|              |             |
|--------------|-------------|
| Size Options | 1 mg, 10 mg |
|--------------|-------------|

Usage

Research use

QUALITY CONTROL

|               |                                                      |
|---------------|------------------------------------------------------|
| Purity Method | HPLC, Mass Spectrometry (MS)                         |
| Identity      | Confirmed by ESI-MS or MALDI-TOF                     |
| Purity        | Peak Area by HPLC >=95%                              |
| Documentation | Certificate of Analysis (CoA) available upon request |