

Tau Peptide (275-305)(Repeat 2 domain)

PRODUCT DESCRIPTION

Tau Peptide (275-305)(Repeat 2 domain) is a 31-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 ( $\geq 95\%$  by HPLC) as a lyophilized powder for reconstitution in appropriate buffers.

PRODUCT SPECIFICATIONS

|                   |                                      |
|-------------------|--------------------------------------|
| Catalog Number    | BPT1348                              |
| CAS Number        | 330456-25-2                          |
| Molecular Weight  | 3264.7015 Da                         |
| Molecular Formula | C139H239N43O45S1                     |
| Purity            | Peak Area by HPLC $\geq 95\%$        |
| Form              | Lyophilized                          |
| Source            | Synthetic (Chemical Synthesis, SPPS) |
| Endotoxin         | N/A (Synthetic peptide)              |

AMINO ACID SEQUENCE

One-Letter Code:

VQIINKKLDLSNVQSKCGSKDNIKHVPGGGS

Three-Letter Code:

H-Val-Gln-Ile-Ile-Asn-Lys-Lys-Leu-Asp-Leu-Ser-Asn-Val-Gln-Ser-Lys-Cys-Gly-Ser-Lys-Asp-Asn-Ile-Lys-His-Val-Pro-Gly-Gly-Gly-Ser-OH

RESEARCH APPLICATIONS

|                  |                                         |
|------------------|-----------------------------------------|
| Application      | Neurotoxicity & Aggregation             |
| Biomarker Target | Amyloid-beta / Tau                      |
| Research Area    | Neuroscience                            |
| Sub-category     | Neurodegeneration & Alzheimer's Disease |

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 $\geq 95\%$

## Documentation

Certificate of Analysis (CoA) available upon request