

Casein Kinase II Substrate

PRODUCT DESCRIPTION

Casein Kinase II Substrate is a 10-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    | BPT2386                              |
| Molecular Weight  | 1362.3566 Da                         |
| Molecular Formula | C52H87N19O24                         |
| 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:

RRREEETEEE

Three-Letter Code:

H-Arg-Arg-Arg-Glu-Glu-Glu-Thr-Glu-Glu-Glu-OH

RESEARCH APPLICATIONS

|                  |                                  |
|------------------|----------------------------------|
| Application      | Enzyme activity                  |
| Biomarker Target | PKA Kinase                       |
| Research Area    | Cell Signaling                   |
| Sub-category     | Kinases, Substrates & Inhibitors |

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 |