

MBP MAPK Substrate

PRODUCT DESCRIPTION

MBP MAPK Substrate is a 9-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    | BPT0839                              |
| CAS Number        | 138028-00-9                          |
| Molecular Weight  | 967.0843 Da                          |
| Molecular Formula | C39H70N18O11                         |
| 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:

APRTPGGRR

Three-Letter Code:

H-Ala-Pro-Arg-Thr-Pro-Gly-Gly-Arg-Arg-OH

RESEARCH APPLICATIONS

|                  |                                  |
|------------------|----------------------------------|
| Application      | Enzyme activity                  |
| Biomarker Target | MAPK/ERK 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  $\geq 95\%$

## Documentation

Certificate of Analysis (CoA) available upon request