

Sar-[D-Phe8]-des-Arg9-Bradykinin

PRODUCT DESCRIPTION

Sar-[D-Phe8]-des-Arg9-Bradykinin is a 11-amino-acid A peptide related to the kinin-kallikrein system, mediating vasodilation, increased vascular permeability, smooth muscle contraction, and pain signaling through B1 and B2 bradykinin receptors. Widely used in cardiovascular, inflammation, and pain research for studying kinin receptor pharmacology, ACE inhibitor mechanisms, and inflammatory cascade modulation.

PRODUCT SPECIFICATIONS

|                   |                                      |
|-------------------|--------------------------------------|
| Catalog Number    | BPT0861                              |
| CAS Number        | 126959-88-4                          |
| Molecular Weight  | 975.0981 Da                          |
| Molecular Formula | C47H66N12O11                         |
| Purity            | Peak Area by HPLC >=95%              |
| Form              | Lyophilized                          |
| Source            | Synthetic (Chemical Synthesis, SPPS) |
| Endotoxin         | N/A (Synthetic peptide)              |

AMINO ACID SEQUENCE

One-Letter Code:

{Sar}RPPGFSPf

Three-Letter Code:

H-{N-Me-Gly}-Arg-Pro-Pro-Gly-Phe-Ser-Pro-{D-Phe}-OH

RESEARCH APPLICATIONS

|                  |                              |
|------------------|------------------------------|
| Application      | Receptor binding             |
| Biomarker Target | Bradykinin Receptors (B1/B2) |
| Research Area    | Inflammation                 |
| Sub-category     | Kinin-Kallikrein System      |

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