

Sarafotoxin S6b

PRODUCT DESCRIPTION

Sarafotoxin S6b is a 48-amino-acid A peptide from the endothelin family, one of the most potent vasoconstrictors known. Endothelins signal through ETA and ETB receptors to regulate vascular tone, cell proliferation, and fibrosis. Widely used in cardiovascular, pulmonary, and renal research for studying vasoconstriction, pulmonary hypertension, and the development of endothelin receptor antagonists.

PRODUCT SPECIFICATIONS

|                   |                                      |
|-------------------|--------------------------------------|
| Catalog Number    | BPT1907                              |
| CAS Number        | 120972-53-4                          |
| Molecular Weight  | 2563.9186 Da                         |
| Molecular Formula | C110H159N27O34S5                     |
| Purity            | Peak Area by HPLC >=95%              |
| Form              | Lyophilized                          |
| Source            | Synthetic (Chemical Synthesis, SPPS) |
| Endotoxin         | N/A (Synthetic peptide)              |

AMINO ACID SEQUENCE

One-Letter Code:

CSCKDMDTKECLYFCHQDVIW(Disulfidebridge:Cys1-Cys15,Cys3-Cys11)

Three-Letter Code:

H-Cys-Ser-Cys-Lys-Asp-Met-Thr-Asp-Lys-Glu-Cys-Leu-Tyr-Phe-Cys-His-Gln-Asp-Val-Ile-Trp-OH(Disulfidebridge:Cys1-Cys15,Cys3-Cys11)

RESEARCH APPLICATIONS

|                  |                                      |
|------------------|--------------------------------------|
| Application      | Receptor binding                     |
| Biomarker Target | Endothelin Receptors (ETA/ETB)       |
| Research Area    | Cardiovascular                       |
| Sub-category     | Endothelin System & Vasoconstriction |

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 |