

Caerulein (desulfated)

PRODUCT DESCRIPTION

Caerulein (desulfated) is a 14-amino-acid A peptide related to the cholecystokinin (CCK) family, which regulates gallbladder contraction, pancreatic enzyme secretion, satiety, and anxiety-like behavior through CCK-A and CCK-B receptors. Used in gastrointestinal, metabolic, and neuroscience research for studying digestive physiology, appetite regulation, and anxiogenic/anxiolytic mechanisms.

PRODUCT SPECIFICATIONS

|                   |                                      |
|-------------------|--------------------------------------|
| Catalog Number    | BPT1071                              |
| CAS Number        | 20994-83-6                           |
| Molecular Weight  | 1272.3386 Da                         |
| Molecular Formula | C58H73N13O18S1                       |
| Purity            | Peak Area by HPLC >=95%              |
| Form              | Lyophilized                          |
| Source            | Synthetic (Chemical Synthesis, SPPS) |
| Endotoxin         | N/A (Synthetic peptide)              |

AMINO ACID SEQUENCE

One-Letter Code:

{Pyr}QDYTGWMDF-NH2

Three-Letter Code:

H-{Pyr}-Gln-Asp-Tyr-Thr-Gly-Trp-Met-Asp-Phe-NH2

RESEARCH APPLICATIONS

|                  |                                        |
|------------------|----------------------------------------|
| Application      | Receptor binding                       |
| Biomarker Target | CCK Receptors (CCK-A/B)                |
| Research Area    | Gastroenterology                       |
| Sub-category     | Cholecystokinin & Digestive Regulation |

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