

Dynorphin A (2-17), porcine

PRODUCT DESCRIPTION

Dynorphin A (2-17), porcine is a 16-amino-acid A peptide from the prodynorphin/opioid peptide family, functioning as an endogenous ligand for kappa-opioid receptors (KOR). Dynorphins play key roles in pain modulation, stress responses, reward circuits, and mood regulation. This peptide is used in neuroscience and pain research to study opioid receptor pharmacology, analgesic mechanisms, and addiction neurobiology.

PRODUCT SPECIFICATIONS

|                   |                                      |
|-------------------|--------------------------------------|
| Catalog Number    | BPT2579                              |
| Molecular Weight  | 1984.3048 Da                         |
| Molecular Formula | C90H146N30O21                        |
| Purity            | Peak Area by HPLC >=95%              |
| Form              | Lyophilized                          |
| Source            | Synthetic (Chemical Synthesis, SPPS) |
| Endotoxin         | N/A (Synthetic peptide)              |

AMINO ACID SEQUENCE

One-Letter Code:

GGFLRRIRPKLWDNQ

Three-Letter Code:

H-Gly-Gly-Phe-Leu-Arg-Arg-Ile-Arg-Pro-Lys-Leu-Lys-Trp-Asp-Asn-Gln-OH

RESEARCH APPLICATIONS

|                  |                             |
|------------------|-----------------------------|
| Application      | Receptor binding            |
| Biomarker Target | kappa-Opioid Receptor (KOR) |
| Research Area    | Neuroscience                |
| Sub-category     | Opioid Signaling & Pain     |

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 |