

[D-Ala2, DArg6] Dynorphin A, (1-13), porcine

PRODUCT DESCRIPTION

[D-Ala2, DArg6] Dynorphin A, (1-13), porcine is a 13-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	BPT1703
Molecular Weight	1617.9762 Da
Molecular Formula	C76H128N24O15
Purity	Peak Area by HPLC >=95%
Form	Lyophilized
Source	Synthetic (Chemical Synthesis, SPPS)
Endotoxin	N/A (Synthetic peptide)

AMINO ACID SEQUENCE

One-Letter Code:

YaGFLrRIRPKLK

Three-Letter Code:

H-Tyr-{D-Ala}-Gly-Phe-Leu-{D-Arg}-Arg-Ile-Arg-Pro-Lys-Leu-Lys-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