

Bradykinin-Like Neuropeptide (Aplysia californica)

PRODUCT DESCRIPTION

Bradykinin-Like Neuropeptide (Aplysia californica) 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	BPT2583
CAS Number	165174-60-7
Molecular Weight	1327.5587 Da
Molecular Formula	C53H98N24O14S1
Purity	Peak Area by HPLC >=95%
Form	Lyophilized
Source	Synthetic (Chemical Synthesis, SPPS)
Endotoxin	N/A (Synthetic peptide)

AMINO ACID SEQUENCE

One-Letter Code:

MKRSRGSPRR

Three-Letter Code:

H-Met-Lys-Arg-Ser-Arg-Gly-Pro-Ser-Pro-Arg-Arg-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
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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