Boc-(Lys9)-Neurotensin (9-13)-methyl ester

PRODUCT DESCRIPTION

Boc-(Lys9)-Neurotensin (9-13)-methyl ester is a 11-amino-acid A peptide related to the neurotensin system, a 13-amino-acid neuropeptide that functions as both a neurotransmitter and neuromodulator. Neurotensin signals through NTS1 and NTS2 receptors to modulate dopaminergic transmission, pain perception, thermoregulation, and gastrointestinal motility. Used in neuroscience and oncology research for studying neurotensin receptor signaling, antipsychotic mechanisms, and tumor biology.

PRODUCT SPECIFICATIONS

Catalog Number	BPT0125
CAS Number	89545-20-0
Molecular Weight	746.9312 Da
Molecular Formula	C38H62N6O9
Purity	Peak Area by HPLC >=95%
Form	Lyophilized
Source	Synthetic (Chemical Synthesis, SPPS)
Endotoxin	N/A (Synthetic peptide)

AMINO ACID SEQUENCE

One-Letter Code:

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Boc-KPYIL-OMe
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Three-Letter Code:

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Boc-Lys-Pro-Tyr-Ile-Leu-OMe
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RESEARCH APPLICATIONS

Application	Receptor binding
Biomarker Target	Neurotensin Receptors (NTS1/2)
Research Area	Neuroscience
Sub-category	Neurotensin & Dopaminergic Signaling

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