

Selank

PRODUCT DESCRIPTION

Selank is a synthetic heptapeptide analog of tuftsin (Thr-Lys-Pro-Arg) extended with Pro-Gly-Pro for enhanced stability. Functions as a positive allosteric modulator of GABA-A receptors, producing anxiolytic effects without sedation or dependence. Also influences serotonergic/dopaminergic systems, inhibits enkephalin-degrading enzymes, upregulates BDNF, and regulates T-helper cell cytokine balance.

PRODUCT SPECIFICATIONS

Catalog Number	BPT2884
CAS Number	129954-34-3
Molecular Weight	751.87 Da
Molecular Formula	C33H57N11O9
Purity	Peak Area by HPLC >=95%
Form	Lyophilized
Source	Synthetic (Chemical Synthesis, SPPS)
Endotoxin	N/A (Synthetic peptide)

AMINO ACID SEQUENCE

One-Letter Code:

Thr-Lys-Pro-Arg-Pro-Gly-Pro

Three-Letter Code:

H-Thr-{D-His}-{D-Arg}-Leu-{D-Tyr}-{D-Ser}-Pro-{D-Arg}-{D-Pyl}-Ala-{D-Arg}-{D-Gly}-Pro-{D-Arg}-{D-Pyl}-Gly-{D-Leu}-{D-Tyr}-Pro-{D-Arg}-{D-Pyl}-OH

RESEARCH APPLICATIONS

Application	Neuroprotection
Biomarker Target	Neurotrophic Factors
Research Area	Neuroscience
Sub-category	Neuroprotection & Cognitive Enhancement

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