

PE-22-28

PRODUCT DESCRIPTION

PE-22-28 is an optimized spadin analog acting as a potent TREK-1 potassium channel antagonist. Modulates neuronal excitability and increases serotonin release in dorsal raphe nucleus and hippocampus. Investigated as a rapid-acting antidepressant with a novel non-monoaminergic mechanism.

PRODUCT SPECIFICATIONS

Catalog Number	BPT2914
CAS Number	1801959-12-5
Molecular Weight	773.89 Da
Purity	Peak Area by HPLC >=95%
Form	Lyophilized
Source	Synthetic (Chemical Synthesis, SPPS)
Endotoxin	N/A (Synthetic peptide)

AMINO ACID SEQUENCE

One-Letter Code:

Gly-Val-Ser-Trp-Gly-Leu-Arg

Three-Letter Code:

H-Gly-{D-Leu}-{D-Tyr}-Val-{D-Ala}-{D-Leu}-Ser-{D-Glu}-{D-Arg}-Thr-{D-Arg}-{D-Pro}-Gly-{D-Leu}-{D-Tyr}-Leu-{D-Glu}-{D-Sec}-Ala-{D-Arg}-{D-Gly}-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
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