

Pinealon

PRODUCT DESCRIPTION

Pinealon is a synthetic tripeptide bioregulator (Glu-Asp-Arg) derived from Cortixin. Proposed neuroprotective mechanism involves nuclear penetration to modulate gene expression, reduce ROS accumulation, regulate MAPK/ERK1/2 signaling, and suppress neuronal apoptosis. Investigated for ischemic/hypoxic neuronal damage, cognitive support, and circadian rhythm regulation.

PRODUCT SPECIFICATIONS

Catalog Number	BPT2889
CAS Number	175175-23-2
Molecular Weight	418.40 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:

H-Glu-Asp-Arg-OH (EDR)

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)
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Identity	Confirmed by ESI-MS or MALDI-TOF
Purity	Peak Area by HPLC >=95%
Documentation	Certificate of Analysis (CoA) available upon request