

N-Acetyl Epithalon

PRODUCT DESCRIPTION

N-Acetyl Epithalon features N-terminal acetylation for protection from aminopeptidase degradation and extended half-life. Core mechanism--telomerase activation, telomere maintenance, melatonin regulation, and epigenetic modulation--remains identical to parent Epithalon.

PRODUCT SPECIFICATIONS

Catalog Number	BPT2891
CAS Number	N/A
Molecular Weight	~432.38 Da
Molecular Formula	C14H22N4O9
Purity	Peak Area by HPLC >=95%
Form	Lyophilized
Source	Synthetic (Chemical Synthesis, SPPS)
Endotoxin	N/A (Synthetic peptide)

AMINO ACID SEQUENCE

One-Letter Code:

Ac-Ala-Glu-Asp-Gly-OH

Three-Letter Code:

H-Ala-{D-Leu}-{D-Ala}-Gly-{D-Leu}-{D-Sec}-Ala-{D-Ser}-{D-Pro}-Gly-{D-Leu}-{D-Tyr}-Pyl-His-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