

Epithalon / Epitalon

PRODUCT DESCRIPTION

Epithalon is a synthetic tetrapeptide analog of epithalamin from the bovine pineal gland. Primarily studied as a telomerase activator--stimulates telomerase activity and promotes telomere elongation in human somatic cells. Also shows antioxidant properties, melatonin synthesis modulation, immune support, and suppression of spontaneous tumorigenesis.

PRODUCT SPECIFICATIONS

Catalog Number	BPT2890
CAS Number	307297-39-8
Molecular Weight	390.35 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:

H-Ala-Glu-Asp-Gly-OH (AEDG)

Three-Letter Code:

H-Ala-Glu-Asp-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