



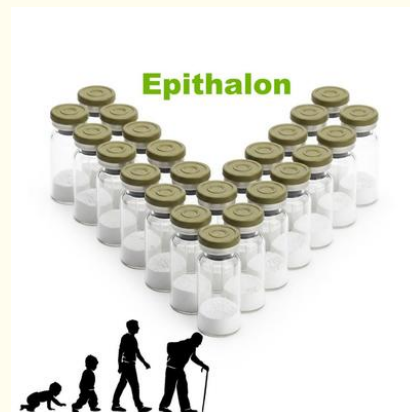
99%HPLC Epithalon 20mg Bioregulator Vial For Promoting Cellular Longevity

Our Product Introduction

for more products please visit us on peptide-powder.com

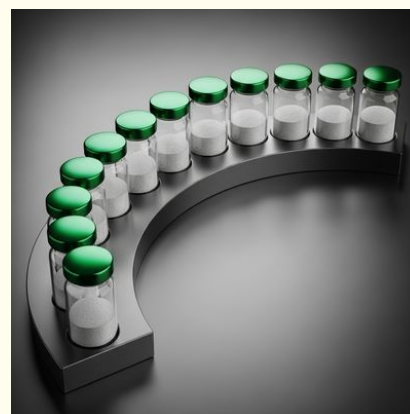
Basic Information

- Place of Origin: China
- Brand Name: Hongbaiyi
- Certification: COA, HPLC MR
- Model Number: HBV-Livagen
- Minimum Order Quantity: 5 kits
- Price: Negotiable
- Packaging Details: 20mg or according to customer's requirements.
- Delivery Time: 3-5 work days after your payment
- Payment Terms: Alibaba, T/T, Western Union
- Supply Ability: 20,000 boxes /month



Product Specification

- Product Name: Epithalon 20mg
- Form: Synthetic Tetrapeptide Bioregulator In Lyophilized Powder Vial
- Amino Acid Sequence: Ala-Glu-Asp-Gly (AEDG)
- CAS Number: 307297-39-8
- Formula: $C_{14}H_{22}N_4O_9$
- Molecular Weight: 390.35
- Primary Mechanism: Activates Telomerase Enzyme To Elongate Telomeres, Promoting Cellular Longevity And Reducing Age-related Decline.
- Key Research Functions: Anti-aging (restores Youthful Gene Expression); Antioxidant (boosts Glutathione, Reduces Lipid Oxidation); Immune Enhancement; Potential Chronobiotic For Sleep/circadian Rhythms.
- Purity: $\geq 99\%$ (HPLC-certified)
- Highlight: **Epithalon 20mg bioregulator vial, 99% HPLC Epithalon cellular longevity**



More Images



Product Description

99%HPLC Epithalon 20mg Bioregulator Vial For Promoting Cellular Longevity

Epithalon 20mg Overview

Epithalon (Epitalon; H-Ala-Glu-Asp-Gly-OH) is a synthetic tetrapeptide bioregulator from pineal extract epithalamin, sold as 20mg lyophilized vials (≥99% purity) for lab research only. Targets telomerase activation, telomere lengthening, epigenetics; not approved for human/veterinary use. Focus: anti-aging, oncology, immunology.

Property	Details
Product Name	Epithalon (also Epitalon, Epithalone, Epithalamin)
Description	Sold as 20mg lyophilized powder vial for laboratory use only.
CAS Number	307297-39-8
Sequence	Ala-Glu-Asp-Gly (AEDG)
Molecular Formula	C ₁₄ H ₂₂ N ₄ O ₉
Molecular Weight	390.35 g/mol (or 390.349 g/mol)
Color	White
Purity	≥99% (HPLC-tested; USA-made available from suppliers like Peptide Sciences)
Form	Lyophilized powder (freeze-dried for stability)
Target	Cell Cycle/DNA Damage pathway
Availability	20mg vial:

Key Research

Telomere/Anti-Aging: Activates telomerase, extends human cell lifespan 33–45%; cuts DNA mutations/chromosomal issues in aged mice.
Pineal/Cell Protection: Prevents senescence in pineal cells; reduces biomarkers (p16/p21), ROS, oxidative stress in gingival/stem cells.
Immune/Oncology: Boosts T-cell modulation for immunity; inhibits sarcoma tumors via apoptosis/vascular effects.
Longevity: Raises mouse lifespan 12–27%; restores melatonin, rhythms, pineal function in aged models. Dose/context-specific; no large human trials as of Oct 2025.

Research Benefits

Prolonged cell life, senescence reduction for aging studies.
Oxidative/inflammatory protection.
Immune boost, tumor inhibition models.
Better sleep/hormones, tissue repair.
Synergizes in longevity protocols; low toxicity reported.

Dosage (Lab Only)

5–10mg/day SC in rodents (10–20mg days, 1–2mg/year cycles); reconstitute in bacteriostatic water. No human scaling.

Storage & Handling

Category	Details
Storage Conditions	Powder: -80°C (2 years); -20°C (1 year) - In solvent: -80°C (6 months); -20°C (1 month) - Sealed, away from moisture/light.
Solubility (In Vitro)	Water: ≥50 mg/mL (128.09 mM; saturation unknown) - Stock Solutions (examples): - 1 mg: 2.5618 mL H ₂ O - 5 mg: 12.8090 mL H ₂ O - 10 mg: 25.6180 mL H ₂ O - Reconstitute with bacteriostatic water for research protocols.
Handling Precautions	Sterile techniques required. For lab use only; avoid ingestion/injection in non-research settings.

Biological Activity & Functions (Research Contexts)

Epithalon acts as an anti-aging agent by activating telomerase, elongating telomeres, and modulating gene expression. Key mechanisms include epigenetic regulation, free radical scavenging, and pineal gland support (e.g., melatonin synthesis). Dose-dependent; effects observed in cell cultures, rodents, insects, and limited primate models.

Function Category	Detailed Research Functions
Anti-Aging & Longevity	Activates telomerase to elongate telomeres, reducing cellular senescence. - Prolongs lifespan: 52% in fruit flies/rats; 27% in tumor-prone mice. - Eliminates free radicals; restores youthful gene activity (e.g., CD5 for immune differentiation, IL-2 for WBC regulation, MMP2 for inflammation control). - Increases interferon gamma in aging lymphocytes for viral defense.
DNA & Gene Regulation	Interacts with DNA promoters to upregulate genes: Tram1 (protein production), Arylalkylamine-N-acetyltransferase (melatonin), pCREB (circadian/anti-cancer), telomerase (cell longevity). - Reduces DNA errors/mutations; prevents apoptosis via decreased caspase-3.
Immune & Reproductive Support	Delays age-related decline in reproductive/immune systems. - Boosts T-cell function; enhances interferon production against infections.
Skin & Tissue Repair	Activates fibroblasts (30–45% increase in rodents) for collagen/elastin synthesis. - Accelerates wound healing; offsets age-related skin degradation.

Function Category	Detailed Research Functions
Oncology Research	Inhibits spontaneous tumor development/metastasis in mice/rats (e.g., Her-2/neu breast cancer, leukemia, testicular). - Activates PER1 protein to sensitize cancer cells to radiation; reduces secondary tumors.
Neurological & Endocrine	Restores melatonin/cortisol circadian rhythms in aging monkeys. - Influences AANAT/pCREB for melatonin secretion; neuroprotective effects.
Ocular Health	Prolongs retinal integrity; improves bioelectric function in 90% of retinitis pigmentosa rat models. - Potential for pigmental retinal degeneration studies.

Product Images





FAQ

Q1: Can I get some samples?

A: Yes, we can provide samples. However, customers must bear the shipping cost.

Q2: How to pay?

A: We accept various payment methods, including T/T and other options.

Q 3: What is your MOQ (Minimum Order Quantity)?

A: Our standard MOQ is 5kits. However, smaller quantities, such as 100 grams, can be arranged for a corresponding sample fee.

Q 4: What is the shipping time?

A: Orders are usually shipped within 3-7 days with a tracking number. Delivery times vary by destination. Please get in touch with us for details.



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