ANTI-AGING

Epitalon

Epithalon — Ala-Glu-Asp-Gly

Pineal-derived tetrapeptide. Telomerase activator with 35+ years of published longevity research.

MECHANISM	DOSAGE	HALF-LIFE	FORMAT
Telomerase activator — upregulates hTERT; restores pineal / circadian axis	5–10 mg/day for 10–20 days, 1–2 cycles/year	<2 hours (rapid renal clearance)	Lyophilised powder

BATCH	LOT	CAS	FORMULA	ISSUED	RETEST
NU-EPI-4520	535520	307297-39-8	C14H22N4O9	2025-09-09	2026-09-09

OVERVIEW

Epitalon (Ala-Glu-Asp-Gly) is a synthetic tetrapeptide derived from epithalamin, the active fraction of bovine pineal gland extract developed by Professor Vladimir Khavinson. It is one of the few peptides with published evidence of telomerase activation and measurable telomere lengthening in human somatic cells.

MECHANISM OF ACTION

Telomerase activator — upregulates hTERT; restores pineal / circadian axis

KEY RESEARCH BENEFITS

- Telomere lengthening in human cell studies
- Telomerase (hTERT) upregulation
- Restores circadian melatonin rhythm in aged subjects
- Enhanced T-cell and NK-cell activity
- Reduced cancer incidence in aged rodent models

RESEARCH NOTES

Khavinson (2003) demonstrated telomere elongation in human fetal fibroblasts. Subsequent studies in aged individuals showed improved immune parameters and melatonin restoration.

STORAGE & STABILITY

Lyophilised: -20 °C, stable >=24 months. Reconstituted: 2–8 °C, use within 7 days.