EUPORIA
PEPTIDES

# EPITHALON

## SYNTHETIC AEDG TETRAPEPTIDE

Epithalon (also called Epitalon) is a synthetic four-amino-acid peptide designed from analysis of epithalamin, a pineal gland extract. Its biological effects remain investigational.

## IDENTITY

**Sequence:** Ala–Glu–Asp–Gly (AEDG)
**Molecular formula:** $C_{14}H_{22}N_4O_9$
**Molecular weight:** 390.35 g/mol
**CAS:** 307297-39-8
**Class:** Synthetic tetrapeptide

ALA • GLU • ASP • GLY



## RESEARCH AREAS

**Telomere biology:**
early studies reported telomerase activity and telomere elongation in cultured human cells.

**Animal models:**
an experiment examined lifespan in fruit flies (Drosophila melanogaster).

**Gene regulation:**
a cell study reported changes in neurogenesis-related gene expression after AEDG exposure.

## EVIDENCE LIMITS

Cell and animal results do not establish a lifespan benefit in humans.

The mechanisms and long-term safety in people remain uncertain.

## SOURCES


- PubChem: Epitalon, CID 219042
- Khavinson VK et al. Bull Exp Biol Med. 2003;135:590–592.
- Khavinson VK et al. Mech Ageing Dev. 2000;120:141–149.
- Khavinson V et al. Molecules. 2020;25(3):609.


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