OLYMPUS PEPTIDE

# EPITHALON

## (Epithalamin)

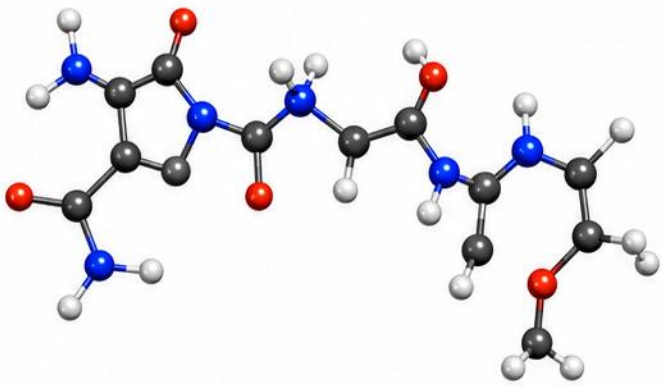
TECHNICAL INFORMATION SHEET

RESEARCH USE ONLY

| | |
|---|---|
| PRODUCT NAME | Epithalon (Epithalamin) |
| SYNONYMS | Epithalon; Epithalamin; Epitalon; Epithalamine |
| CAS NUMBER | 307297-39-8 |
| PEPTIDE CLASS | Anti-aging peptide |
| PEPTIDE LENGTH | 4 amino acids |
| APPEARANCE | White to off-white lyophilized powder |
| SOLUBILITY | Soluble in Water for Injection (WFI), bacteriostatic water, or sterile saline |
| STORAGE (LYOPHILIZED) | 2–8°C short-term; –20°C or below for long-term. Protect from light and moisture. |
| STORAGE (AFTER RECONSTITUTION) | 2–8°C. Avoid repeated freeze–thaw cycles. |
| MOLECULAR WEIGHT | 466.53 g/mol |
| MOLECULAR FORMULA | $C_{20}H_{29}N_5O_7$ |

## ILLUSTRATIVE 3-D MOLECULAR VISUALIZATION

*Illustrative 3-D molecular visualization of Epithalon (Epithalamin) structure.*



Carbon Hydrogen Nitrogen Oxygen

*Illustrative 3-D molecular visualization of the Epithalon structure.*

The model represents the chemical structure based on the amino acid sequence.

## PEPTIDE BACKBONE SEQUENCE (ONE-LETTER CODE)

| | |
|---|---|
| Sequence (4 amino acids) | A E P D |

Note: This is the peptide backbone sequence (one-letter code).
No post-translational modifications are present in Epithalon.

## COMPONENT SPECIFICATIONS

| PARAMETER | SPECIFICATION |
|---|---|
| CAS Number | 307297-39-8 |
| Amino Acid Sequence (4 amino acids) | Ala-Glu-Pro-Asp |
| One-Letter Sequence | A E P D |
| Molecular Formula | $C_{20}H_{29}N_5O_7$ |
| Molecular Weight | 466.53 g/mol |

**MOLECULAR WEIGHT: 466.53 g/mol.**
This value is the sum of the individual peptide molecular weights and is provided for reference only.
The compound is not a single chemical entity.

### DESCRIPTION

Epithalon (Epithalamin) is a synthetic tetrapeptide originally studied for its potential role in regulating telomerase activity and supporting cellular health.

Epithalon has been investigated for its potential anti-aging effects, support of circadian rhythm regulation, and promotion of overall well-being.

This peptide is supplied as a lyophilized powder for research use only.

### KEY CHARACTERISTICS

- Anti-aging peptide
- Potential telomerase modulator
- Supports cellular health and longevity
- Associated with improved sleep quality
- Supplied as a sterile lyophilized powder
- Highly water soluble
- Typically analyzed using HPLC and LC-MS
- Stable for long-term frozen storage when lyophilized

### SCIENTIFIC NOTE

Epithalon (Epithalamin) is a research peptide and is not approved as a therapeutic drug by the FDA or Health Canada. All use is restricted to laboratory research.

The information provided is for reference purposes only and is not intended for human or veterinary use.