



# SZABO SCANDIC

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## Produktinformation



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Laborgeräte & Service

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- Expressversand

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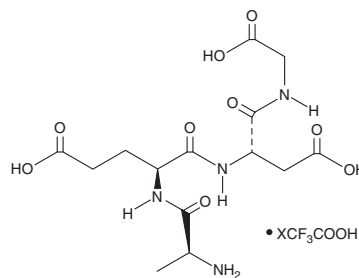
# PRODUCT INFORMATION



## Epitalon (trifluoroacetate salt)

Item No. 39177

**Formal Name:** L-alanyl-L- $\alpha$ -glutamyl-L- $\alpha$ -aspartyl-glycine, trifluoroacetate salt  
**Synonym:** Ala-Glu-Asp-Gly  
**Peptide Sequence:** AEDG  
**MF:** C<sub>14</sub>H<sub>22</sub>N<sub>4</sub>O<sub>9</sub> • XCF<sub>3</sub>COOH  
**FW:** 390.4  
**Purity:**  $\geq 95\%$   
**Supplied as:** A crystalline solid  
**Storage:** -20°C  
**Stability:**  $\geq 4$  years



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

### Laboratory Procedures

Epitalon (trifluoroacetate salt) is supplied as a crystalline solid. A stock solution may be made by dissolving the epitalon (trifluoroacetate salt) in the solvent of choice, which should be purged with an inert gas. Epitalon (trifluoroacetate salt) is soluble in organic solvents such as DMSO and dimethyl formamide. The solubility of epitalon (trifluoroacetate salt) in these solvents is approximately 3 and 1 mg/ml, respectively.

Further dilutions of the stock solution into aqueous buffers or isotonic saline should be made prior to performing biological experiments. Ensure that the residual amount of organic solvent is insignificant, since organic solvents may have physiological effects at low concentrations. Organic solvent-free aqueous solutions of epitalon (trifluoroacetate salt) can be prepared by directly dissolving the crystalline solid in aqueous buffers. The solubility of epitalon (trifluoroacetate salt) in PBS (pH 7.2) is approximately 5 mg/ml. We do not recommend storing the aqueous solution for more than one day.

### Description

Epitalon is a synthetic tetrapeptide with anti-aging activities.<sup>1-4</sup> It increases the lifespan of *D. melanogaster* imagoes when used at concentrations ranging from 0.001 to 5% in the culture medium.<sup>1</sup> Epitalon (1  $\mu$ g/animal) delays age-related estrous cycle shutdown and decreases the frequency of bone marrow cell chromosomal aberrations in female mice.<sup>2</sup> It decreases spontaneous mammary gland and ovarian tumor development and metastasis in aged female mice when administered at a dose of 0.1  $\mu$ g/animal.<sup>3</sup> Epitalon (10  $\mu$ g/animal) also stimulates melatonin synthesis in the evening and restores the circadian rhythm of cortisol secretion in senescent *M. mulatta* monkeys.<sup>4</sup>

### References

1. Khavinson, V.K., Izmaylov, D.M., Obukhova, L.K., *et al.* Effect of epitalon on the lifespan increase in *Drosophila melanogaster*. *Mech. Ageing Dev.* **120(1-3)**, 141-149 (2000).
2. Anisimov, V.N., Khavinson, V.K., Popovich, I.G., *et al.* Effect of Epitalon on biomarkers of aging, life span and spontaneous tumor incidence in female Swiss-derived SHR mice. *Biogerontology* **4(4)**, 193-202 (2003).
3. Kossoy, G., Anisimov, V.N., Ben-Hur, H., *et al.* Effect of the synthetic pineal peptide epitalon on spontaneous carcinogenesis in female C3H/He mice. *In Vivo* **20(2)**, 253-257 (2006).
4. Khavinson, V., Goncharova, N., and Lapin, B. Synthetic tetrapeptide epitalon restores disturbed neuroendocrine regulation in senescent monkeys. *Neuro. Endocrinol. Lett.* **22(4)**, 251-254 (2001).

#### WARNING

THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

#### SAFETY DATA

This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent via email to your institution.

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