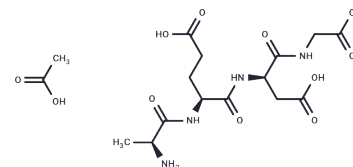


Epitalon (acetate)

Chemical Properties

CAS No. :	307297-40-1
Formula:	C ₁₆ H ₂₆ N ₄ O ₁₁
Molecular Weight:	450.401
Appearance:	no data available
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year



Biological Description

Description	Epitalon is a synthetic tetrapeptide with anti-aging properties. ^{1,2,3,4} Dietary administration of epitalon (0.00001% w/w) reduces levels of lipid peroxidation products in aged <i>D. melanogaster</i> tissue homogenates.
In vivo	Epitalon (1 µg/animal) delays age-related estrous shutdown and decreases the frequency of bone marrow cell chromosomal aberrations in female mice. ² It decreases spontaneous mammary gland and ovarian tumor development and metastasis in aged female mice. ³ Epitalon also stimulates melatonin synthesis and normalizes the circadian rhythm of cortisol secretion in senescent female <i>M. mulatta</i> monkeys. ⁴

Solubility Information

Solubility	PBS (pH 7.2): 5 mg/mL DMSO: 3 mg/mL DMF: 1 mg/mL (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.2202 mL	11.1012 mL	22.2025 mL
5 mM	0.444 mL	2.2202 mL	4.4405 mL
10 mM	0.222 mL	1.1101 mL	2.2202 mL
50 mM	0.0444 mL	0.222 mL	0.444 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Reference

Khavinson, V.K., and Myl'nikov, S.V. Effect of epithalone on the age-specific changes in the time course of lipid peroxidation in *Drosophila melanogaster*. Bull. Exp. Biol. Med. 130(11), 1116-1119 (2000).

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