

Chemical Properties

NC(C)C(=O)[C@H](CCC(=O)O)NC(=O)[C@@H](Cc1ccc(C(=O)O)cc1)NC(=O)O

Biological Description

Description	Epithalon (also known as Epitalon or Epithalone) is the synthetic version of the polypeptide Epithalamin which is naturally produced in the pineal gland.
In vitro	Addition of Epithalon peptide in telomerase-negative human fetal fibroblast culture induced expression of the catalytical subunit, enzymatic activity of telomerase, and telomere elongation, which can be due to reactivation of telomerase gene in somatic cells and indicates the possibility of prolonging life span of a cell population and of the whole organism[1].
In vivo	Epitalon increases the lifespan of mice and fruit flies and restores the circadian rhythms of melatonin and cortisol production in old rhesus monkeys. At the same time, Epitalon prolongs the functional integrity of the eye retina in Campbell rats with hereditary Retinitis Pigmentosa and improves the visual functions in patients with pigmental retinal degeneration[1].

Solubility Information

Solubility	< 1 mg/ml refers to the product slightly soluble or insoluble
------------	---

	1mg	5mg	10mg
1 mM	2.562 mL	12.809 mL	25.618 mL
5 mM	0.512 mL	2.562 mL	5.124 mL
10 mM	0.256 mL	1.281 mL	2.562 mL
50 mM	0.051 mL	0.256 mL	0.512 mL

Reference

1. Khavinson VKh. et al. Peptides and Ageing. *Neuro Endocrinol Lett.* 2002;23 Suppl 3:11-144.

Inhibitors · Natural Compounds · Compound Libraries

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use.

Tel:781-999-4286

E-mail:info@targetmol.com

Address:36 Washington Street,Wellesley Hills,MA 02481