

Argireline

Chemical Properties

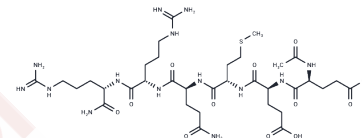
CAS No. : 616204-22-9

Formula: C34H60N14O12S

Molecular Weight: 888.99

Storage: Keep away from moisture, Store at low temperature
Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



Biological Description

Description	Argireline (Acetyl hexapeptide-3) is a peptide composed of amino acid chains that significantly inhibits Ca ²⁺ -dependent neurotransmitter (acetylcholine) release at the neuromuscular junction, exhibiting notable anti-wrinkle and anti-aging activity[1][2][3].
Targets(IC50)	Others, Calcium Channel
In vitro	The incubation of Argireline solution in varying concentrations with human embryonic kidney HEK-293 (IC ₅₀ of 34.862 μM) and neuroblastoma IMR-32 cells (IC ₅₀ of 68.458 μM) for 48 hours exhibits a dose-dependent antiproliferative effect. The solution also shows similar effects on HSF cells. Argireline in low concentrations does not affect cell proliferation [2].
In vivo	Argireline was administered topically to elderly mice twice daily for six weeks, resulting in notable histological improvements in skin tissue. Specifically, the quantity of type I collagen fibers increased significantly (P < 0.01), and the amount of type III collagen fibers decreased (P < 0.05). This demonstrates Argireline's capability to enhance the histological architecture of skin tissue and restore aged skin[3].

Solubility Information

Solubility	H ₂ O: 250 mg/mL (281.22 mM) DMSO: 10 mM, Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.1249 mL	5.6244 mL	11.2487 mL
5 mM	0.225 mL	1.1249 mL	2.2497 mL
10 mM	0.1125 mL	0.5624 mL	1.1249 mL
50 mM	0.0225 mL	0.1125 mL	0.225 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.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Blanes-Mira C, et al. A synthetic hexapeptide (Argireline) with antiwrinkle activity. *Int J Cosmet Sci.* 2002 Oct;24(5): 303-10.

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