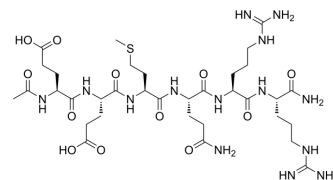


Argireline

Cat. No.:	HY-P0033
CAS No.:	616204-22-9
Molecular Formula:	C ₃₄ H ₆₀ N ₁₄ O ₁₂ S
Molecular Weight:	888.99
Sequence Shortening:	Ac-EEMQRR-NH ₂
Target:	Others
Pathway:	Others
Storage:	Sealed storage, away from moisture
	Powder -80°C 2 years
	-20°C 1 year



* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)

SOLVENT & SOLUBILITY

In Vitro

H₂O : 100 mg/mL (112.49 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	1.1249 mL	5.6244 mL	11.2487 mL
	5 mM	0.2250 mL	1.1249 mL	2.2497 mL
	10 mM	0.1125 mL	0.5624 mL	1.1249 mL

Please refer to the solubility information to select the appropriate solvent.

In Vivo

- Add each solvent one by one: PBS
Solubility: 50 mg/mL (56.24 mM); Clear solution; Need ultrasonic

BIOLOGICAL ACTIVITY

Description

Argireline (Acetyl hexapeptide-3) is a non-toxic, skin-permeable, antiwrinkle peptide. Argireline significantly inhibits Ca²⁺ dependent neurotransmitter release (acetylcholine) at the neuromuscular junction. Argireline has antiwrinkle and anti-aging activity^{[1][2][3]}.

In Vitro

The incubation of Argireline solution in different concentrations with human embryonic kidney HEK-293 (IC₅₀ of 34.862 μM) and neuroblastoma IMR-32 cells (IC₅₀ of 68.458 μM) for 48 h have dose dependent antiproliferative effect. Argireline solution incubated in different concentrations with HSF has a dose-dependent antiproliferative effect on those cells. Cellular proliferation is not effected in Argireline low concentration^[2].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

In Vivo

Argireline is applied to the aged mice twice daily for 6 weeks. There is an improvement in the histological structure of skin

tissue in the aged mice; the amount of type I collagen fibers increased, while that of type III collagen fibers decreased. Argireline could improve the histological structure of skin tissue and rejuvenate the aging skin^[3]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

- [1]. Blanes-Mira C, et al. A synthetic hexapeptide (Argireline) with antiwrinkle activity. *Int J Cosmet Sci.* 2002 Oct;24(5):303-10.
- [2]. Grosicki M, et al. The study of cellular cytotoxicity of argireline - an anti-aging peptide. *Acta Biochim Pol.* 2014;61(1):29-32.
- [3]. Wang Y, et al. The anti-wrinkle efficacy of Argireline. *J Cosmet Laser Ther.* 2013 Aug;15(4):237-41.
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Caution: Product has not been fully validated for medical applications. For research use only.

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