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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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Myomodulin acetate(110570-93-9 free base)

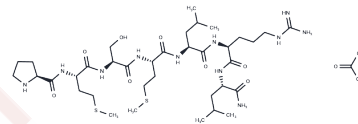
Chemical Properties

CAS No. :

Formula: C₃₈H₇₁N₁₁O₁₀S₂

Molecular Weight: 906.17

Appearance: no data available

Storage: keep away from moisture
Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Biological Description

Description	Myomodulin acetate is present in two identified aplysia neurons that contain myomodulin A the ARC motor neuron B16 and the abdominal neuron L10.
Targets(IC50)	Potassium Channel,Calcium Channel,Sodium Channel
In vitro	Myomodulin decreases period and increases spike frequency in oscillator heart interneurons. Myomodulin enhances the hyperpolarization-activated cation current and inhibits the electrogenic Na/K pump[1]. A myomodulin peptide has been suggested to mediate the response of the giant glial cells to stimulation of the Leydig interneuron in the central nervous system of the leech <i>Hirudo medicinalis</i> . The peptide evokes a membrane outward current (EC ₅₀ approximately 2 μM), which neither desensitizes nor shows any sign of run-down, and elicits a K ⁺ conductance increase of the glial cell membrane[3]. Myomodulin modulate ion channels in a wide variety of organisms including <i>Aplysia</i> , <i>Lymnaea</i> , and <i>Pleurobranchaea</i> . Myomodulin differentially modulates the potassium currents and reduces the amplitude of the Ca ²⁺ current by 20%[2].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.1035 mL	5.5177 mL	11.0355 mL
5 mM	0.2207 mL	1.1035 mL	2.2071 mL
10 mM	0.1104 mL	0.5518 mL	1.1035 mL
50 mM	0.0221 mL	0.1104 mL	0.2207 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

Tobin AE, et al. Myomodulin increases I_h and inhibits the Na/K pump to modulate bursting in leech heart interneurons. *J Neurophysiol.* 2005 Dec;94(6):3938-50.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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