

Myomodulin

Catalog No: tcsc7017

Available Sizes

Size: 1mg

Size: 5mg

Size: 10mg

Specifications

CAS No:

110570-93-9

Formula:

 $C_{36}H_{67}N_{11}O_8S_2$

Pathway:

Membrane Transporter/Ion Channel; Membrane Transporter/Ion Channel; Membrane Transporter/Ion Channel

Target:

Calcium Channel; Potassium Channel; Sodium Channel

Purity / Grade:

Solubility:

10 mM in H2O

Observed Molecular Weight:

846.12

Product Description

Myomodulin is a neuropeptide present in molluscs, insects, and gastropods.

In Vitro: Myomodulin decreases period and increases spike frequency in oscillator heart interneurons. Myomodulin enhances the

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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 Hirudo medicinalis. The peptide evokes a membrane outward current (EC_{50} approximately 2 μ M), which neither desensitizes nor shows any sign of run-down, and elicits a K⁺ conductance increase of the glial cell membrane^[2]. Myomodulin modulate ion channels in a wide variety of organisms including Aplysia, Lymnaea, and Pleurobranchaea. Myomodulin differentially modulates the potassium currents and reduces the amplitude of the Ca²⁺ current by 20%^[3].



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