

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:

>98%

Solubility:

10 mM in H₂O

Observed Molecular Weight:

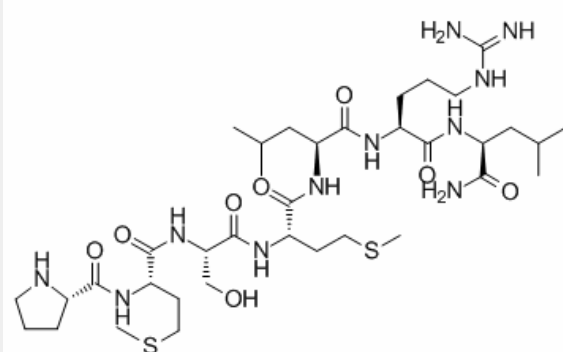
846.12

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

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 Ca^{2+} current by 20%^[3].



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