



LKT Laboratories, Inc.

Myomodulin

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Product Information

Product ID M9356

CAS No. 110570-93-9

Chemical Name

Synonym Myomodulin A , Myomoduline A

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

Formula Wt. 846.13

Melting Point

Purity $\geq 95\%$

Solubility Soluble in water.

Store Temp -20°C

Ship Temp Ambient

Description Myomodulin is a neuromodulatory peptide found in molluscs, insects, and gastropods. In leeches, myomodulin inhibits activity of the Na^+/K^+ pump, increasing hyperpolarization-activated current $I(h)$ and altering heart neuron spike and burst frequency. In glial cell membranes, myomodulin evokes membrane outward currents and elicits increases in K^+ conductance. Across many cellular models, myomodulin modulates K^+ , Na^+ , and Ca^{2+} current amplitudes. Additionally, myomodulin increases muscle contraction frequency, increasing gut motility.

H-Pro-Met-Ser-Met-Leu-Arg-Leu-NH₂

Pricing and Availability

Bulk quantities available upon request

Product ID	Size	List Price
M9356	1 mg	\$68.00
M9356	2 mg	\$115.60
M9356	5 mg	\$204.10

References Tobin AE, Calabrese RL. 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. PMID: 16093342.

Britz FC, Deitmer JW. Membrane responses of the leech giant glial cell to the peptide transmitter myomodulin. Peptides. 2002 Dec;23(12):2117-25. PMID: 12535690.

Wang Y, Strong JA, Sahley CL. Modulatory effects of myomodulin on the excitability and membrane currents in Retzius cells of the leech. J Neurophysiol. 1999 Jul;82(1):216-25. PMID: 10400950.

Perry SJ, Straub VA, Kemenes G, et al. Neural modulation of gut motility by myomodulin peptides and acetylcholine in the snail Lymnaea. J Neurophysiol. 1998 May;79(5):2460-74. PMID: 9582220.

Caution: This product is intended for laboratory and research use only. It is not for human or drug use.