



LKT Laboratories, Inc.

Apamin

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Product Information

Product ID A6002

CAS No. 24345-16-2

Chemical Name

Synonym

Formula $C_{79}H_{131}N_{31}O_{24}S_4$

Formula Wt. 2027.37

Melting Point

Purity $\geq 95\%$

Solubility Soluble in water (1 mg/mL).

Store Temp $-20^{\circ}C$

Ship Temp Ambient

Description Apamin is a peptide bee venom toxin that acts as an antagonist at K^{+} channels. Apamin inhibits small- and intermediate-conductance Ca^{2+} -activated K^{+} (SK2/3, IK) channels; it blocks the pore region, preventing K^{+} ion transport and lowering the threshold for action potential development. Apamin exhibits neuroprotective and cognition enhancing benefits, improving visiospatial learning deficits in animal models undergoing a water maze task in an in vivo model of neurofibromatosis 1.

H-Cys-Asn-Cys-Lys-Ala-Pro-Glu-
Thr-Ala-Leu-Cys-Ala-Arg-Arg-
Cys-Gln-Gln-His-NH₂ (Cys1-Cys11, Cys3-Cys15)

Pricing and Availability

Bulk quantities available upon request

Product ID	Size	List Price
A6002	0.5 mg	\$163.80
A6002	1 mg	\$277.30
A6002	2.5 mg	\$491.60

References Dalaklioglu S, Ozbey G. Role of different types of potassium channels in the relaxation of corpus cavernosum induced by resveratrol. *Pharmacogn Mag.* 2014 Jan;10(37):47-52. PMID: 24696545.

Kallarackal AJ, Simard JM, Bailey AM. The effect of apamin, a small conductance calcium activated potassium (SK) channel blocker, on a mouse model of neurofibromatosis 1. *Behav Brain Res.* 2013 Jan 15;237:71-5. PMID: 22983217.

Lamy C, Goodchild SJ, Weatherall KL, et al. Allosteric block of KCa_2 channels by apamin. *J Biol Chem.* 2010 Aug 27;285(35):27067-77. PMID: 20562108.

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