

Rev04  
Update: May,23,2022

**DATASHEET**

# Apamin

Cat. No.: RP11002

## Overview

<b>Description</b>	Apamin, a bee venom polypeptide, blocks specifically the Ca <sup>2+</sup> -dependent K <sup>+</sup> channels that are not blocked by tetraethylammonium chloride in muscle cells. Apamin is a highly specific compound that tightly binds to the Ca <sup>2+</sup> slow channels, thus blocking the slow APs in heart muscle. In addition, quinidine antagonizes the apamin binding on the slow APs.
<b>Cas No</b>	24345-16-2
<b>Sequence</b>	{CYS}{ASN}{CYS}{LYS}{ALA}{PRO}{GLU}{THR}{ALA}{LEU}{CYS}{ALA}{ARG}{ARG}{CYS}{GLN}{GLN}{HIS}-NH <sub>2</sub>
<b>Sequence Shortening</b>	CNCKAPETALCARRCQQH-NH <sub>2</sub>
<b>Molecular Formula</b>	C <sub>79</sub> H <sub>131</sub> N <sub>31</sub> O <sub>24</sub> S <sub>4</sub>
<b>C Terminal</b>	NH <sub>2</sub>
<b>Disulfide Bridge</b>	Cys1-Cys11, Cys3-Cys15
<b>Molecular Weight</b>	2027.3

## Properties

<b>Purity</b>	> 95%
<b>Form</b>	Lyophilized
<b>Storage</b>	Store at -20°C. Keep tightly closed. Store in a cool dry place.
<b>Note</b>	Originally isolated from Apis mellifera. A small conductance Ca <sup>2+</sup> -activated K <sup>+</sup> channel blocker.

## Examples

