

Product datasheet

Tertiapin Q, blocker of inward-rectifier r K<sup>+</sup> channels  
ab120432

7 References 1 Image

Overview

<b>Product name</b>	Tertiapin Q, blocker of inward-rectifier r K <sup>+</sup> channels
<b>Description</b>	Potent inward rectifier K <sup>+</sup> channel blocker
<b>Biological description</b>	Potent blocker of inward rectifier K <sup>+</sup> channels. Stable analog of the bee venom tertiapin. High affinity for ROMK1 and GIRK1/4 (K <sub>i</sub> values are 1.3 and 13.3 nM, respectively). Displays >250-fold selectivity over many other Kir subtypes.
<b>Purity</b>	> 95%
<b>General notes</b>	Sold under license granted by the University of Pennsylvania.
<b>CAS Number</b>	252198-49-5
<b>Chemical structure</b>	Ala-Leu-Cys-Asn-Cys-Asn-Arg-Ile-Ile-Ile-Pro-His-Gln-Cys-Trp-Lys-Lys-Cys-Gly-Lys-Lys-NH <sub>2</sub> (Disulfide bridges 3-14, 5-18)

Properties

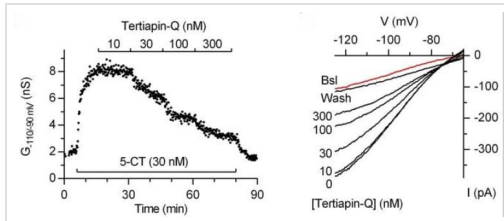
<b>Molecular weight</b>	2452.01
<b>Molecular formula</b>	C <sub>106</sub> H <sub>175</sub> N <sub>35</sub> O <sub>24</sub> S <sub>4</sub>
<b>Sequence</b>	ALCNCNRIIIIPHQCWKKCGKK (Modifications: C-terminal amide; Disulfide bonds: 3-14, 5-18)
<b>PubChem identifier</b>	92131436
<b>Storage instructions</b>	Store at -20°C. Store under desiccating conditions. The product can be stored for up to 12 months.
<b>Solubility overview</b>	Soluble in water
<b>Handling</b>	Wherever possible, you should prepare and use solutions on the same day. However, if you need to make up stock solutions in advance, we recommend that you store the solution as aliquots in tightly sealed vials at -20°C. Generally, these will be useable for up to one week. Before use, and prior to opening the vial we recommend that you allow your product to equilibrate to room temperature for at least 1 hour.  Need more advice on solubility, usage and handling? Please visit our <a href="#">frequently asked questions (FAQ) page</a> for more details.
<b>SMILES</b>	CC[C@H](C)[C@H]1C(=O)NC(C(=O)N[C@H](C(=O)N2CCC[C@H]2C(=O)N[C@H]

C(=O)N[C@H](C(=O)N[C@H]3CSSC[C@@H](C(=O)N[C@H](C(=O)N[C@@H](CSSC[C@H](NC(=O)[C@@H](NC(=O)[C@@H](NC(=O)[C@@H](NC3=O)CC4=CNC5=CC=CC=C54)CCCCN)CCCCN)C(=O)NCC(=O)N[C@@H](CCCCN)C(=O)N[C@@H](CCCCN)C(=O)N)C(=O)N[C@H](C(=O)N1)CC(=O)N)CC(=O)N)NC(=O)[C@H](CC(C)C)NC(=O)[C@H](C)N)CCC(=O)N)CC6=CNC=N6)[C@@H](C)CC)[C@@H](C)CC

Source

Synthetic

## Images



Tertiapin Q, blocker of inward-rectifier r K<sup>+</sup> channels

Other - Tertiapin Q, blocker of inward-rectifier r K<sup>+</sup> channels (ab120432)

Image from Montalbano A, et al. Plos One, 10(10), e0140369. Fig 3.; doi: 10.1371/journal.pone.0140369

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES, NOT FOR USE IN HUMANS"

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