Data Sheet (Cat.No.TP2114)

TargetMol
A DRUG SCREENING EXPERT

Tertiapin-Q

Chemical Properties

CAS No.:	910044-56-3
Formula:	C106H175N35O24S4
Molecular Weight:	2452
Appearance:	N/A
Storage:	0-4℃ for short term (days to weeks), or -20℃ for long term (months).

Biological Description

Description	A high affinity blocker for inward-rectifier K+ channels, this compound is a stable derivative of the bee venom toxin tertiapin. Binds to ROMK1 (Kir1.1) and GIRK1/4 (Kir3.1/3.4) channels with high affinity (Ki values are 1.3 and 13.3 nM respectively) and is selective over Kir2.1 channels. Derivative tertiapin LQ also available.

Solubility Information

Solubility	water: 2 mg/mL (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.408 mL	2.039 mL	4.078 mL
5 mM	0.082 mL	0.408 mL	0.816 mL
10 mM	0.041 mL	0.204 mL	0.408 mL
50 mM	0.008 mL	0.041 mL	0.082 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 ℃ for 6 months; - 20 ℃ for 1 month. Please use it as soon as possible.

Reference

1. Jin et al (1999) Mechanisms of inward-rectifier K+ channel inhibition by tertiapin-Q. Biochemistry 38 14294 PMID:
2. Jin and Lu (1999) Synthesis of a stable form of tertiapin: a high-affinity inhibitor for inward-rectifier K+ channels. Biochemistry 38 14286 PMID:

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