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DATASHEET

Tertiapin LQ

Product overview

Name	Tertiapin LQ
Cat No	HB1107
Biological action	Blocker
Purity	>95%
Description	Potent, selective $K_{ir}1.1$ channel blocker

Images

Biological Data

Biological description	Tertiapin-Q derivative. Potent and selective $K_{ir}1.1$ channel blocker. Selective for $K_{ir}1.1$ over $K_{ir}3.1/3.2$ and $K_{ir}3.1/3.4$ (K_d values are 1.1, 274 and 361 nM respectively).

Solubility & Handling

Storage instructions	-20°C
Solubility overview	Soluble in acetonitrile (2mg/ml)
Important	This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use.

Chemical Data

Molecular Weight	2428.03
Chemical structure	
Molecular Formula	$C_{106}H_{179}N_{33}O_{24}S_4$
PubChem identifier	90488935
SMILES	[H]N[C@@H](C)C(=O)N[C@@H](CC(C)C)C(=O)N[C@H]1CSSC[C@@H]2NC(=O)[C@H](CCC(N)=O)NC(=O)[C@H](CC(C)C)NC(=O)[C@@H]3CCCN3C(=O)[C@@H](NC(=O)[C@@H](NC(=O)[C@@H](NC(=O)[C@H](CCCNC(N)=N)NC(=O)[C@H](CC(N)=O)NC(=O)[C@H](CSSC[C@H](NC(=O)[C@H](CCCCN)NC(=O)[C@H](CCCCN)NC(=O)[C@H](CC3=CNC4=C3C=CC=C4)NC2=O)C(=O)NCC(=O)N[C@@H](CCCCN)C(=O)N[C@@H](CCCCN)C(N)=O)NC(=O)[C@H](CC(N)=O)NC1=O)[C@@H](C)CC)[C@@H](C)CC)[C@@H](C)CC
InChiKey	WUMIWMIQOSXVPZ-ZPWFPUPGSA-N

References

Engineered specific and high-affinity inhibitor for a subtype of inward-rectifier K+ channels.

Ramu Y *et al* (2008) Proc Natl Acad Sci U S A 105(31)
PubMedID 18669667