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DATASHEET

Tertiapin-Q

Product overview

Name	Tertiapin-Q
Cat No	HB1108
Biological action	Blocker
Purity	>95%
Description	Potent inward rectifier K ⁺ channel blocker

Images



Biological Data

Biological description	Potent inward rectifier K ⁺ channel blocker. Inhibits K _{ir} 1.1 (ROMK1) and K _{ir} 3.1/3.4 (GIRK1/4) (K _d values are 1.3 and 13.3 nM respectively).
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Solubility & Handling

Storage instructions	-20 °C (desiccate)
Solubility overview	Soluble in water (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

Chemical name	ALC*NC*NRIIPHQC*WKKC*GKK (Modifications: Disulfide bonds 3 - 14 and 5 - 18, C-terminal amide)
Molecular Weight	2453.06
Chemical structure	
Molecular Formula	C ₁₀₆ H ₁₇₅ N ₃₅ O ₂₄ S ₄
CAS Number	910044-56-3
PubChem identifier	92131436
SMILES	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](C(=O)N[C@H](C(=O)N[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

InChi	<chem>N)NC(=O)[C@H](CC(C)C)NC(=O)[C@H](C)NCCC(=O)NCC6=CNC=N6[C@@H](C)CC[C@@H](C)CC</chem>
InChiKey	InChI=1S/C100H163N31O23S4/c1-10-52(6)79-98(152)129-80(53(7)11-2)99(153)130-81(54(8)12-3)100(154)131-37-23-30-74(131)97(151)123-67(40-57-44-110-50-113-57)91(145)118-64(31-32-75(106)132)88(142)125-71-47-157-158-48-72(126-89(143)65(38-51(4)5)119-83(137)55(9)
MDL number	GYOKDEHVCCTTJF-VJPNZKQ TSA-N MFCD02684419

References

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

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Jin W *et al* (1999) *Biochemistry* 38(43)

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GABAergic activation of an inwardly rectifying K⁺ current in mouse cerebellar Purkinje cells.

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