

BeKm-1

Chemical Properties

CAS No. : 524962-01-4

Formula: C174H261N51O52S6

Molecular Weight: 4091.65

RPTDIKCSSEYQCFPVCKSRFGKTNGRCVNGFCDCF
(Disulfide bridge: Cys₈₁₃-Cys₈₃₃; Cys₈₁₇-Cys₈₃₅; Cys₈₇₇-Cys₈₂₈)

Keep away from moisture

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.

Biological Description

Description	Potent and selective KV11.1 (hERG) channel blocker. Selective for KV11.1 over a panel of 14 other potassium channels. Dose-dependently prolongs QTc interval in isolated rabbit heart.
Targets(IC50)	Potassium Channel

Solubility Information

Solubility H2O: 1 mg/mL (0.24 mM), Sonication is recommended.
(< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.2444 mL	1.222 mL	2.444 mL
5 mM	0.0489 mL	0.2444 mL	0.4888 mL
10 mM	0.0244 mL	0.1222 mL	0.2444 mL
50 mM	0.0049 mL	0.0244 mL	0.0489 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

- Korolkova et al (2001) An ERG channel inhibitor from the scorpion *Buthus eupeus*. *J.Biol.Chem.* 276 9868 PMID:
- Qu et al (2011) BeKm-1, a peptide inhibitor of human ether-a-go-go-related gene potassium currents, prolongs QTc intervals in isolated rabbit heart. *J.Pharmacol.Exp.Ther.* 337 2 PMID:
- Korolkova et al (2002) New binding site on common molecular scaffold provides HERG channel specificity of scorpion toxin BeKm-1. *J.Biol.Chem.* 277 43104 PMID:

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