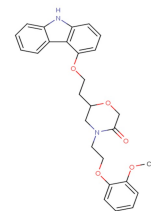


Homo-VK-II-36

Chemical Properties

CAS No.:	1479049-35-8
Formula:	C27H28N2O5
Molecular Weight:	460.53
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).

**Biological Description**

Description	Homo-VK-II-36 is a carvedilol analogue that acts by inhibiting store-overload-induced calcium release through the RyR2 channel.
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Solubility Information

Solubility	DMSO: 10 mM (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.171 mL	10.857 mL	21.714 mL
5 mM	0.434 mL	2.171 mL	4.343 mL
10 mM	0.217 mL	1.086 mL	2.171 mL
50 mM	0.043 mL	0.217 mL	0.434 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 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

Reference

1. Zhang JZ, McLay JC, Jones PP. The arrhythmogenic human HRC point mutation S96A leads to spontaneous Ca(2+) release due to an impaired ability to buffer store Ca(2+). *J Mol Cell Cardiol.* 2014 Sep;74:22-31. doi: 10.1016/j.yjmcc.2014.04.019. Epub 2014 May 5. PubMed PMID: 24805197.
2. Zhou Q, Xiao J, Jiang D, et al. Carvedilol and its new analogs suppress arrhythmogenic store overload-induced Ca2+ release. *Nat Med.* 2011 Jul 10;17(8):1003-9. doi: 10.1038/nm.2406. PubMed PMID: 21743453; PubMed Central PMCID: PMC3268079.

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