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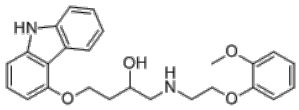
Data Sheet

Global Supplier of Chemical Probes, Inhibitors & Agonists.

Product Name	:	VK-Ⅱ-86
Cat. No.	:	PC-38485
CAS No.	:	955371-84-3
Molecular Formula	:	$C_{25}H_{28}N_2O_4$
Molecular Weight	:	420.5
Target	:	Calcium Channel
Solubility	:	10 mM in DMSO



Biological Activity

VK-II-86 is a carvedilol analogue lacking antagonist activity at β-adrenoceptors, effectively suppresses SOICR by directly reducing the open duration of the cardiac ryanodine receptor (**RyR2**).
VK-II-86 exhibited >2,000-fold lower beta-AR binding affinity than carvedilol.
VK-II-86 prevented stress-induced ventricular tachyarrhythmias in RyR2-mutant mice and did so more effectively when combined with either of the selective beta blockers metoprolol or bisoprolol.
VK-II-86 prevented hypokalaemia-induced AP prolongation and depolarization but did not alter AP parameters in normokalaemia.

References

Zhou Q, et al. ***Nat Med.*** 2011 Jul 10;17(8):1003-9.

Gonano LA, et al. ***Circ J.*** 2018 Dec 25;83(1):41-51.

Robinson VM, et al. ***Br J Pharmacol.*** 2021 Dec 7. doi: 10.1111/bph.15775.

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