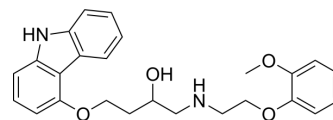


VK-II-86

Cat. No.:	HY-111013
CAS No.:	955371-84-3
Molecular Formula:	C ₂₅ H ₂₈ N ₂ O ₄
Molecular Weight:	420.5
Target:	Others
Pathway:	Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (237.81 mM; Need ultrasonic)

Concentration	Mass			
	1 mg	5 mg	10 mg	
1 mM	2.3781 mL	11.8906 mL	23.7812 mL	
5 mM	0.4756 mL	2.3781 mL	4.7562 mL	
10 mM	0.2378 mL	1.1891 mL	2.3781 mL	

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

VK-II-86 is a Carvedilol (HY-B0006) analogue lacking antagonist activity at β -adrenoceptors, in hypokalaemia. VK-II-86 prevents hypokalaemia-induced ventricular arrhythmia through multi-channel effects. VK-II-86 prevents all hypokalaemia-induced changes in ion channel activity and oxidative stress^[1].

In Vivo

VK-II-86 markedly reduces the number of non-sustained and sustained ventricular tachyarrhythmias in the hypokalaemic murine whole-heart model^[1].
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Robinson VM, et al. A carvedilol analogue, VK-II-86, prevents hypokalaemia-induced ventricular arrhythmia through novel multi-channel effects. *Br J Pharmacol.* 2022 Jun;179(11):2713-2732.

Caution: Product has not been fully validated for medical applications. For research use only.

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