VK-II-36

Cat. No.: HY-111014

CAS No.: 955371-66-1

Molecular Formula: $C_{26}H_{26}N_2O_5$

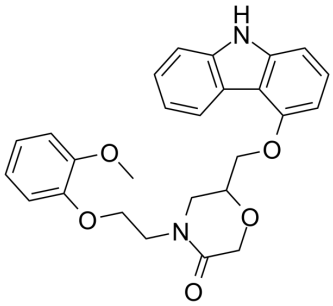
Molecular Weight: 446.5

Target: Calcium Channel

Pathway: Membrane Transporter/Ion Channel; Neuronal Signaling

Storage:

Powder	-20°C	3 years
	4°C	2 years
In solvent	-80°C	6 months
	-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (223.96 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	2.2396 mL	11.1982 mL	22.3964 mL
	5 mM	0.4479 mL	2.2396 mL	4.4793 mL
	10 mM	0.2240 mL	1.1198 mL	2.2396 mL

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

In Vivo

1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
   Solubility: ≥ 2.5 mg/mL (5.60 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.5 mg/mL (5.60 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

VK-II-36 is a carvedilol analog that suppresses sarcoplasmic reticulum Ca^{2+}release but does not block the β-receptor.VK-II-36 inhibits triggered activities evoked by both early and delayed after depolarizations[1].

REFERENCES

[1]. Maruyama M, et al. Carvedilol analogue inhibits triggered activities evoked by both early and delayed afterdepolarizations. Heart Rhythm. 2013 Jan;10(1):101-7.

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

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