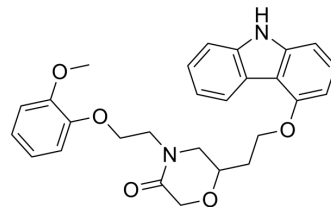


## SOICR-IN-1

<b>Cat. No.:</b>	HY-103059		
<b>CAS No.:</b>	1479049-35-8		
<b>Molecular Formula:</b>	C <sub>27</sub> H <sub>28</sub> N <sub>2</sub> O <sub>5</sub>		
<b>Molecular Weight:</b>	460.52		
<b>Target:</b>	Calcium Channel		
<b>Pathway:</b>	Membrane Transporter/Ion Channel; Neuronal Signaling		
<b>Storage:</b>	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



## SOLVENT & SOLUBILITY

### In Vitro

DMSO : 66.67 mg/mL (144.77 mM; Need ultrasonic)

Concentration	Solvent	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	2.1715 mL	10.8573 mL	21.7146 mL
	5 mM	0.4343 mL	2.1715 mL	4.3429 mL
	10 mM	0.2171 mL	1.0857 mL	2.1715 mL

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

### In Vivo

- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline  
Solubility: 2.5 mg/mL (5.43 mM); Suspended solution; Need ultrasonic
- Add each solvent one by one: 10% DMSO >> 90% corn oil  
Solubility: ≥ 2.5 mg/mL (5.43 mM); Clear solution

## BIOLOGICAL ACTIVITY

### Description

SOICR-IN-1 (compound 32) is a store-overload induced calcium release (SOICR) inhibitor with an IC<sub>50</sub> value of 14.6 μM. SOICR-IN-1 can be used for the research of cardiac arrhythmias<sup>[1]</sup>.

## REFERENCES

- [1]. Smith CD, et al. Novel carvedilol analogues that suppress store-overload-induced Ca<sup>2+</sup> release. J Med Chem. 2013 Nov 14;56(21):8626-55.

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

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