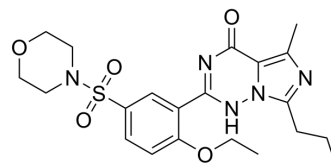


## PDE5-IN-4

Cat. No.:	HY-142059		
CAS No.:	224788-36-7		
Molecular Formula:	C <sub>21</sub> H <sub>27</sub> N <sub>5</sub> O <sub>5</sub> S		
Molecular Weight:	461.53		
Target:	Phosphodiesterase (PDE)		
Pathway:	Metabolic Enzyme/Protease		
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 (216.67 mM; Need ultrasonic)					
	Preparing Stock Solutions	<div><div>Solvent</div><div>Concentration</div></div>	Mass	1 mg	5 mg	10 mg
		1 mM		2.1667 mL	10.8335 mL	21.6671 mL
		5 mM		0.4333 mL	2.1667 mL	4.3334 mL
		10 mM		0.2167 mL	1.0834 mL	2.1667 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 (5.42 mM); Clear solution					
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (5.42 mM); Clear solution					

## BIOLOGICAL ACTIVITY

Description	PDE5-IN-4 is a phosphodiesterase 5 inhibitor. PDE5-IN-4 can be used for the research of acute myocardial infarction and damage caused by reperfusion, gastrointestinal diseases, damage caused by diabetes, and liver failure <sup>[1]</sup> .
IC <sub>50</sub> & Target	PDE5

## REFERENCES

[1]. Haning H, et, al. Novel uses of 2-phenyl-substituted imidazotriazinone derivatives. WO2006015715.

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

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