TPN171

Cat. No.:	HY-128593					
CAS No.:	1229018-87-4					
Molecular Formula:	C ₂₄ H ₃₅ N ₅ O ₃					
Molecular Weight:	441.57	441.57				
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			

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In Vitro	DMSO : 25 mg/mL (56.62 mM; ultrasonic and warming and heat to 60°C)						
	Preparing Stock Solutions	Solvent Mass Concentration	1 mg	5 mg	10 mg		
		1 mM	2.2646 mL	11.3232 mL	22.6465 mL		
		5 mM	0.4529 mL	2.2646 mL	4.5293 mL		
		10 mM	0.2265 mL	1.1323 mL	2.2646 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: ≥ 1 mg/mL (2.26 mM); Clear solution						
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 1 mg/mL (2.26 mM); Clear solution						
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 1 mg/mL (2.26 mM); Clear solution						

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REFERENCES

[1]. Wang Z, et al. Pharmacokinetics-Driven Optimization of 4(3 H)-Pyrimidinones as Phosphodiesterase Type 5 Inhibitors Leading to TPN171, a Clinical Candidate for the Treatment of Pulmonary Arterial Hypertension. J Med Chem. 2019 May 23;62(10):4979-4990.

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

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