RBN-3143

Cat. No.:	HY-150207			
CAS No.:	2360853-16-1			
Molecular Formula:	C ₂₂ H ₂₈ FN ₃ O ₄ S			
Molecular Weight:	449.54			
Target:	PARP			
Pathway:	Cell Cycle/DNA Damage; Epigenetics			
Storage:	Powder	-20°C	3 years	
		4°C	2 years	
	In solvent	-80°C	6 months	
		-20°C	1 month	

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SOLVENT & SOLUBILITY

Preparing Stock Solutions	Solvent Mass Concentration	1 mg	5 mg	10 mg			
	1 mM	2.2245 mL	11.1225 mL	22.2450 mL			
		5 mM	0.4449 mL	2.2245 mL	4.4490 mL		
	10 mM	0.2224 mL	1.1122 mL	2.2245 mL			
	Please refer to the so	Please refer to the solubility information to select the appropriate solvent.					
Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (5.56 mM); Clear solution						
		 Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (5.56 mM); Clear solution 					

BIOLOGICAL ACTIVITY								
Description	RBN-3143 is a potent and NAD+-competitive catalytic PARP14 inhibitor with an IC ₅₀ value of 4 nM. RBN-3143 inhibits PARP14- mediated ADP-ribosylation and stabilizes PARP14 in cell lines. RBN-3143 can be used in research of lung inflammation ^[1] .							
IC ₅₀ & Target	PARP14 4 nM (IC ₅₀)	PARP10 1600 nM (IC ₅₀)	PARP15 4200 nM (IC ₅₀)	PARP4 42700 nM (IC ₅₀)				
	PARP3 >100000 nM (IC ₅₀)	PARP2 >100000 nM (IC ₅₀)	PARP1 >100000 nM (IC ₅₀)					
In Vivo	RBN-3143 (5 μ g; intranasal administration) can improve steroid-resistant asthma mouse models ^[1] .							

Product Data Sheet

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MCE has not independently confirmed the accuracy of these methods. They are for reference only.Animal Model:Mouse of asthma models^[1]Dosage:5 ugAdministration:Intranasal administrationResult:Suppressed the accumulation of alarmins TSLP, IL-33, and IL-25.

REFERENCES

[1]. Niepel M, et, al. The PARP14 inhibitor RBN-3143 suppresses lung inflammation in preclinical models. European Respiratory Journal 2022 60: 4642.

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

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