OUL232

Cat. No.:	HY-148566			
CAS No.:	943119-42-4	4		
Molecular Formula:	C ₁₀ H ₁₀ N ₄ O ₂ S			
Molecular Weight:	250.28			
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	

SOLVENT & SOLUBILITY

Preparing Stock Solution		Solvent Mass Solvent 1 mg Concentration		5 mg	10 mg		
	Preparing Stock Solutions	1 mM 3.9955 mL		19.9776 mL	39.9552 mL		
		5 mM	0.7991 mL	3.9955 mL	7.9911 mL		
		10 mM	0.3996 mL	1.9978 mL	3.9955 mL		
	Please refer to the sol	Please refer to the solubility information to select the appropriate solvent.					
ı Vivo		1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: 5 mg/mL (19.98 mM); Clear solution; Need ultrasonic					
		t one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) mL (19.98 mM); Clear solution; Need ultrasonic					

BIOLOGICAL ACTIV	ТТҮ				
Description	OUL232 is a potent inhibitor of mono-ARTs PARP7, PARP10, PARP11, PARP12, PARP14, and PARP15. OUL232 is the most potent PARP10 inhibitor described to date (IC ₅₀ =7.8 nM), as well as the first PARP12 inhibitor ever reported ^[1] .				
IC ₅₀ & Target	PARP7 83 nM (IC ₅₀)	PARP10 7.8 nM (IC ₅₀)	PARP14 300 nM (IC ₅₀)	PARP15 56 nM (IC ₅₀)	
	PARP1 15 μΜ (IC ₅₀)	PARP2 10 μΜ (IC ₅₀)	PARP3 50 μΜ (IC ₅₀)	PARP4 11 μΜ (IC ₅₀)	
	TNKS1	TNKS2	PARP11	PARP12	

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Product Data Sheet

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	5.4 μM (IC ₅₀)	10	μΜ (IC ₅₀)	240 n	IM (IC ₅₀)	160 nM (I	C ₅₀)
	PARP16 3.4 μΜ (IC ₅₀)						
In Vitro	OUL232 (compound 27) (1 μ M; 10-12 d) saves cells overexpressing PARP10 from ADP ribosylation-dependent cell death ^[1] .						
	Pharmacokinetic Analysis ^[1]						
	water solubility µg/mL	GI P _{app} ×10 ⁻⁶ cm/s (RM %)	BBB P _{app} ×10 ⁻⁶ cm/s (RM %)	metabolic stablity %	stab in human plasma	stab. in MeOH	stab in PBS pH 7.4
	12.60	0.144	0.143	99.11	>24	>24	>24
	MCE has not independently confirmed the accuracy of these methods. They are for reference only.						

REFERENCES

[1]. Murthy S, et al. [1,2,4]Triazolo[3,4-b]benzothiazole Scaffold as Versatile Nicotinamide Mimic Allowing Nanomolar Inhibition of Different PARP Enzymes. J Med Chem. 2023 Jan 4.

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

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