GSK481

HY-100131		
1622849-58-4		
C ₂₁ H ₁₉ N ₃ O ₄		
377.39		
RIP kinase		
Apoptosis		
Powder	-20°C	3 years
	4°C	2 years
In solvent	-80°C	2 years
	-20°C	1 year
	1622849-58 C ₂₁ H ₁₉ N ₃ O ₄ 377.39 RIP kinase Apoptosis Powder	1622849-58-4 C ₂₁ H ₁₉ N ₃ O ₄ 377.39 RIP kinase Apoptosis Powder -20°C 4°C In solvent -80°C

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SOLVENT & SOLUBILITY

	DMSO : ≥ 35 mg/mL (92.74 mM) * "≥" means soluble, but saturation unknown.					
		Solvent Mass Concentration	1 mg	5 mg	10 mg	
		1 mM	2.6498 mL	13.2489 mL	26.4978 mL	
	5 mM	0.5300 mL	2.6498 mL	5.2996 mL		
		10 mM	0.2650 mL	1.3249 mL	2.6498 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 (6.62 mM); Clear solution					
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: 2.5 mg/mL (6.62 mM); Suspended solution; Need ultrasonic					
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (6.62 mM); Clear solution					

Product Data Sheet

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In Vitro	cells, indicating that neo	GSK481 (300 nM; 2 hours; Jurkat cells) abrogates the RIP3 up-regulation induces by both TNFa and shikonin in live and dead cells, indicating that necroptosis is in fact induced by both agents ^[2] . MCE has not independently confirmed the accuracy of these methods. They are for reference only. Apoptosis Analysis ^[2]			
	Cell Line:	Jurkat cells			
	Concentration:	300 nM			
	Incubation Time:	2 hours			
	Result:	Increased levels of detectable apoptosis induced by TNFa and shikonin.			
In Vivo	mouse ^[1] .	GSK481 inhibits Ser ¹⁶⁶ phosphorylation in three mouse RIP1 mutants (IC ₅₀ =18~110 nM) more potently than in wild-type mouse ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.			

REFERENCES

[1]. Harris PA et al. DNA-Encoded Library Screening Identifies Benzo[b][1,4]oxazepin-4-ones as Highly Potent and Monoselective Receptor Interacting Protein 1 Kinase Inhibitors. J Med Chem, 2016 Mar 10, 59(5):2163-78.

[2]. Lee HL, et al. Simultaneous flow cytometric immunophenotyping of necroptosis, apoptosis and RIP1-dependent apoptosis. Methods. 2018 Feb 1;134-135:56-66.

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

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