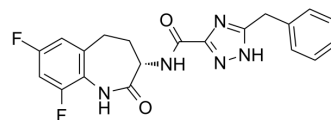


GSK3145095

Cat. No.:	HY-111946		
CAS No.:	1622849-43-7		
Molecular Formula:	C ₂₀ H ₁₇ F ₂ N ₅ O ₂		
Molecular Weight:	397.38		
Target:	RIP kinase		
Pathway:	Apoptosis		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	2 years
		-20°C	1 year



SOLVENT & SOLUBILITY

In Vitro	DMSO : 250 mg/mL (629.12 mM; Need ultrasonic)					
		Solvent Concentration	Mass	1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM		2.5165 mL	12.5824 mL	25.1648 mL
		5 mM		0.5033 mL	2.5165 mL	5.0330 mL
10 mM			0.2516 mL	1.2582 mL	2.5165 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: ≥ 2.08 mg/mL (5.23 mM); Clear solution					
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.08 mg/mL (5.23 mM); Clear solution					
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.08 mg/mL (5.23 mM); Clear solution					

BIOLOGICAL ACTIVITY

Description	GSK3145095 is a RIP1 kinase inhibitor with an IC ₅₀ of 6.3 nM ^[1] .
IC ₅₀ & Target	IC ₅₀ : 6.3 nM (RIP1 kinase) ^[1]
In Vitro	GSK3145095 potently blocks the TNF response as shown by determination of overall cell viability as measured by cellular ATP levels (IC ₅₀ = 1.6 nM), cell death as measured by LDH release (IC ₅₀ = 0.5 nM) and RIP1-dependent inflammatory cytokine MIP-1β production, either as absolute levels for protein, or fold changes in mRNA expression (IC ₅₀ = 0.4 nM) ^[1] .

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Harris PA, ET AL. Identification of a RIP1 Kinase Inhibitor Clinical Candidate (GSK3145095) for the Treatment of Pancreatic Cancer. ACS Med Chem Lett. 2019 May 9;10(6):857-862.

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

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