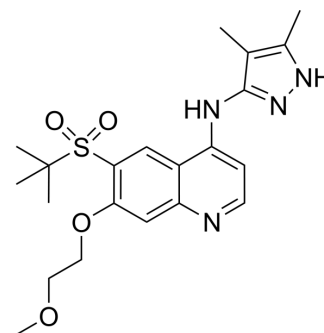


RIP2 kinase inhibitor 2

Cat. No.:	HY-19761		
CAS No.:	1581270-11-2		
Molecular Formula:	C ₂₁ H ₂₈ N ₄ O ₄ S		
Molecular Weight:	432.54		
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 : 5 mg/mL (11.56 mM; Need ultrasonic)			
		Solvent Concentration	Mass	
			1 mg	5 mg
			10 mg	
Preparing Stock Solutions	1 mM	2.3119 mL	11.5596 mL	23.1192 mL
	5 mM	0.4624 mL	2.3119 mL	4.6238 mL
	10 mM	0.2312 mL	1.1560 mL	2.3119 mL
Please refer to the solubility information to select the appropriate solvent.				
In Vivo	<ol style="list-style-type: none"> Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 0.5 mg/mL (1.16 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 0.5 mg/mL (1.16 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 0.5 mg/mL (1.16 mM); Clear solution 			

BIOLOGICAL ACTIVITY

Description	RIP2 kinase inhibitor 2 is a receptor interacting protein-2 (RIP2) kinase inhibitor extracted from patent WO/2014043437 A1, compound example 9.
IC₅₀ & Target	RIP2 Kinase ^[1]
In Vitro	RIP2 kinase inhibitor 2 is a novel prodrug of a quinazolyl amine that inhibits RIP2 kinase. Receptor interacting protein-2 (RIP2) kinase is a TKL family serine/threonine protein kinase involved in innate immune signaling. Following activation, RIP2

kinase associates with NOD1 or NOD2 and appears to function principally as a molecular scaffold to bring together other kinases (TAK1, IKK α / β / γ) involved in NF- κ B and mitogen-activated protein kinase activation^[1].
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

PROTOCOL

Animal

Administration ^[1]

Rats^[1]

Rats are orally pre-dosed with the RIP2 kinase inhibitor 2, at doses of 0.016, 0.16 and 1.6 mg/kg (n=8 rats/group), followed by dosing with L18-MDP (50 μ g/rat) 0.25 hours after pre-dosing with the compound. The IL8 cytokine levels and percentage levels are calculated as the mean \pm standard error of the mean (n=8 rats/group).

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

CUSTOMER VALIDATION

- Atherosclerosis. 2023 Dec 27, 117436.
- Eur J Pharmacol. 2023 Mar 24;947:175679.

See more customer validations on www.MedChemExpress.com

REFERENCES

[1]. Linda N. Casillas, et al. Amino-quinolines as kinase inhibitors. PCT Int. Appl. (2014), WO 2014043437 A1 20140320.

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

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