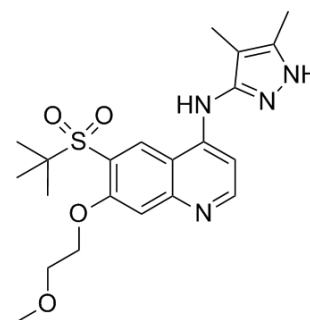


## RIP2 kinase inhibitor 2

<b>Cat. No.:</b>	HY-19761		
<b>CAS No.:</b>	1581270-11-2		
<b>Molecular Formula:</b>	C <sub>21</sub> H <sub>28</sub> N <sub>4</sub> O <sub>4</sub> S		
<b>Molecular Weight:</b>	432.54		
<b>Target:</b>	RIP kinase		
<b>Pathway:</b>	Apoptosis		
<b>Storage:</b>	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



### SOLVENT & SOLUBILITY

<b>In Vitro</b>	DMSO : 5 mg/mL (11.56 mM; Need ultrasonic)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	<b>Preparing Stock Solutions</b>	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.					
<b>In Vivo</b>	<ol style="list-style-type: none"> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 40% PEG300 &gt;&gt; 5% Tween-80 &gt;&gt; 45% saline Solubility: ≥ 0.5 mg/mL (1.16 mM); Clear solution</li> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 90% (20% SBE-β-CD in saline) Solubility: ≥ 0.5 mg/mL (1.16 mM); Clear solution</li> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 90% corn oil Solubility: ≥ 0.5 mg/mL (1.16 mM); Clear solution</li> </ol>				

### BIOLOGICAL ACTIVITY

<b>Description</b>	RIP2 kinase inhibitor 2 is a receptor interacting protein-2 (RIP2) kinase inhibitor extracted from patent WO/2014043437 A1, compound example 9.
<b>IC<sub>50</sub> &amp; Target</b>	RIP2 Kinase <sup>[1]</sup>
<b>In Vitro</b>	RIP2 kinase inhibitor 2 is a novel prodrug of a quinazolinyl 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 $\alpha/\beta/\gamma$ ) involved in NF- $\kappa$ B and mitogen-activated protein kinase activation<sup>[1]</sup>.  
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

---

## PROTOCOL

### Animal

### Administration <sup>[1]</sup>

Rats<sup>[1]</sup>

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  $\mu$ 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.

---

## 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.**

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA