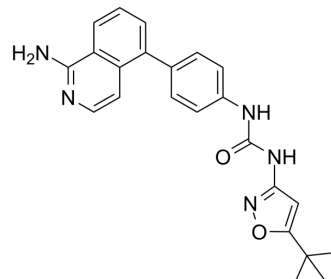


## RIPK1-IN-4

<b>Cat. No.:</b>	HY-18901		
<b>CAS No.:</b>	1481641-08-0		
<b>Molecular Formula:</b>	C <sub>23</sub> H <sub>23</sub> N <sub>5</sub> O <sub>2</sub>		
<b>Molecular Weight:</b>	401.46		
<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 : 250 mg/mL (622.73 mM; Need ultrasonic)			
		Solvent Concentration	Mass	
			1 mg	5 mg
	<b>Preparing Stock Solutions</b>		10 mg	
	<b>1 mM</b>	2.4909 mL	12.4545 mL	24.9091 mL
	<b>5 mM</b>	0.4982 mL	2.4909 mL	4.9818 mL
	<b>10 mM</b>	0.2491 mL	1.2455 mL	2.4909 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; 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.08 mg/mL (5.18 mM); Clear solution</li> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 90% corn oil Solubility: ≥ 2.08 mg/mL (5.18 mM); Clear solution</li> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 40% PEG300 &gt;&gt; 5% Tween-80 &gt;&gt; 45% saline Solubility: ≥ 1.44 mg/mL (3.59 mM); Clear solution</li> </ol>			

### BIOLOGICAL ACTIVITY

<b>Description</b>	RIPK1-IN-4 (compound 8) is a potent and selective type II kinase inhibitor of receptor interacting protein 1 (RIP1) kinase and binds to a DLG-out inactive form of RIP1 with an IC <sub>50</sub> s of 16 nM and 10 nM for RIP1 and ADP-Glo kinase <sup>[1]</sup> .
<b>IC<sub>50</sub> &amp; Target</b>	IC <sub>50</sub> : 16 nM (RIP1) and 10 nM (ADP-Glo) <sup>[1]</sup>

### REFERENCES

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

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