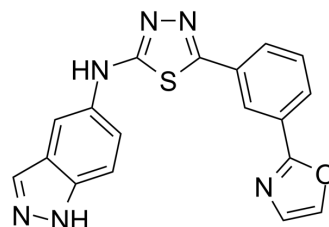


## ROCK2-IN-2

<b>Cat. No.:</b>	HY-103620		
<b>CAS No.:</b>	1995065-79-6		
<b>Molecular Formula:</b>	C <sub>18</sub> H <sub>12</sub> N <sub>6</sub> OS		
<b>Molecular Weight:</b>	360.39		
<b>Target:</b>	ROCK		
<b>Pathway:</b>	Cell Cycle/DNA Damage; Cytoskeleton; Stem Cell/Wnt; TGF-beta/Smad		
<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 : 100 mg/mL (277.48 mM; Need ultrasonic)			
		Solvent Concentration	Mass	
			1 mg	5 mg
			10 mg	
<b>Preparing Stock Solutions</b>	<b>1 mM</b>	2.7748 mL	13.8739 mL	27.7477 mL
	<b>5 mM</b>	0.5550 mL	2.7748 mL	5.5495 mL
	<b>10 mM</b>	0.2775 mL	1.3874 mL	2.7748 mL
Please refer to the solubility information to select the appropriate solvent.				
<b>In Vivo</b>	1. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (6.94 mM); Clear solution			

## BIOLOGICAL ACTIVITY

<b>Description</b>	ROCK2-IN-2 is a selective ROCK2 inhibitor extracted from patent US20180093978A1, Compound A-30, has an IC <sub>50</sub> of <1 μM.
<b>IC<sub>50</sub> &amp; Target</b>	ROCK2 1 μM (IC <sub>50</sub> )
<b>In Vitro</b>	Rho-associated protein kinase (ROCK) is a member of the serine-threonine protein kinase family. ROCK, which exists in two isoforms, ROCK1 and ROCK2, is an effector molecule of RhoA, and the RhoA/ROCK signaling pathway is involved in a number of cellular functions, which include, for example, actin organization, cell adhesion, cell migration, and cytokinesis. In addition, the RhoA/ROCK signaling pathway is involved in regulating smooth muscle contraction. Inhibitors of ROCK have been reported to be useful for treating multiple medical disorders, such as fibrosis, inflammatory disorders, autoimmune disorders, and cardiovascular disorders <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

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## REFERENCES

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[1]. Aicher, Thomas Daniel, et al. INDAZOLYL THIADIAZOLAMINES AND RELATED COMPOUNDS FOR INHIBITION OF RHO-ASSOCIATED PROTEIN KINASE AND THE TREATMENT OF DISEASE. US20180093978A1.

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

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