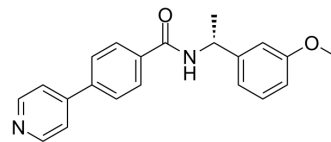


ROCK inhibitor-2

Cat. No.:	HY-119937		
CAS No.:	1127308-52-4		
Molecular Formula:	C ₂₁ H ₂₀ N ₂ O ₂		
Molecular Weight:	332.4		
Target:	ROCK		
Pathway:	Cell Cycle/DNA Damage; Cytoskeleton; Stem Cell/Wnt; TGF-beta/Smad		
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 (752.11 mM; Need ultrasonic)			
		Solvent Concentration	Mass	
			1 mg	5 mg
			10 mg	
Preparing Stock Solutions	1 mM	3.0084 mL	15.0421 mL	30.0842 mL
	5 mM	0.6017 mL	3.0084 mL	6.0168 mL
	10 mM	0.3008 mL	1.5042 mL	3.0084 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: ≥ 2.08 mg/mL (6.26 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.08 mg/mL (6.26 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.08 mg/mL (6.26 mM); Clear solution 			

BIOLOGICAL ACTIVITY

Description	ROCK inhibitor-2 is a selective dual ROCK1 and ROCK2 inhibitor with IC ₅₀ s of 17 nM and 2 nM, respectively ^[1] .	
IC₅₀ & Target	ROCK1 17 nM (IC ₅₀)	ROCK2 2 nM (IC ₅₀)

CUSTOMER VALIDATION

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- J Nanobiotechnology. 2021 Sep 4;19(1):263.
 - Nano Res. 03 August 2022.

See more customer validations on www.MedChemExpress.com

REFERENCES

[1]. Hobson AD, et al. Identification of Selective Dual ROCK1 and ROCK2 Inhibitors Using Structure-Based DrugDesign. J Med Chem. 2018 Dec 27;61(24):11074-11100.

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

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