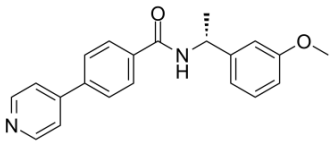
ROCK inhibitor-2

Cat. No.:	HY-119937
CAS No.:	1127308-52-4
Molecular Formula:	$C_{21}H_{20}N_2O_2$
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	6 months
	-20°C	1 month

SOLVENT & SOLUBILITY

In Vitro

DMSO : 250 mg/mL (**752.11 mM;** Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	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

1. 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
2. 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
3. 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].

IC_{50} & Target

ROCK1	ROCK2
17 nM (IC_{50})	2 nM (IC_{50})

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.

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