Rho-Kinase-IN-1

Cat. No.: HY-100270

CAS No.: 1035094-83-7

Molecular Formula: $C_{20}H_{24}N_4S$

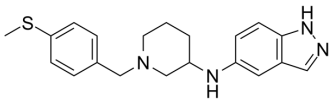
Molecular Weight: 352.5

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 : 50 mg/mL (141.84 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	2.8369 mL	14.1844 mL	28.3688 mL
	5 mM	0.5674 mL	2.8369 mL	5.6738 mL
	10 mM	0.2837 mL	1.4184 mL	2.8369 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 (5.90 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 2.08 mg/mL (5.90 mM); Clear solution
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.08 mg/mL (5.90 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Rho-Kinase-IN-1 is a Rho kinase (ROCK) inhibitor (K_i values of 30.5 and 3.9 nM for ROCK1 and ROCK2, respectively) extracted from US20090325960A1, compound 1.008[1].

IC_{50} & Target

ROCK1	ROCK2
30.5 nM (Ki)	3.9 nM (Ki)

In Vitro

Rho-Kinase-IN-1 is a ROCK inhibitor which can be useful for treating diseases or conditions associated with excessive cell

proliferation, remodeling, edema and inflammation[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Fulcher, Emilee H, et al. Method for the treatment and prevention of the inflammatory diseases using Rho kinase inhibiting compounds. US 20090325960 A1.

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