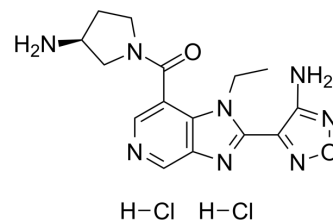


SB-772077B dihydrochloride

Cat. No.:	HY-108518
CAS No.:	607373-46-6
Molecular Formula:	C ₁₅ H ₂₀ Cl ₂ N ₈ O ₂
Molecular Weight:	415.28
Target:	ROCK
Pathway:	Cell Cycle/DNA Damage; Cytoskeleton; Stem Cell/Wnt; TGF-beta/Smad
Storage:	4°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



SOLVENT & SOLUBILITY

In Vitro

H₂O : 100 mg/mL (240.80 mM; Need ultrasonic)
DMSO : 38.33 mg/mL (92.30 mM; ultrasonic and warming and heat to 80°C)

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	2.4080 mL	12.0401 mL	24.0801 mL
	5 mM	0.4816 mL	2.4080 mL	4.8160 mL
	10 mM	0.2408 mL	1.2040 mL	2.4080 mL

Please refer to the solubility information to select the appropriate solvent.

In Vivo

- Add each solvent one by one: PBS
Solubility: 25 mg/mL (60.20 mM); Clear solution; Need ultrasonic
- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
Solubility: ≥ 3.83 mg/mL (9.22 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
Solubility: ≥ 3.83 mg/mL (9.22 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: ≥ 3.83 mg/mL (9.22 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

SB-772077B dihydrochloride is an aminofurazan-based Rho kinase (ROCK) inhibitor with IC₅₀s of 5.6 nM and 6 nM toward ROCK1 and ROCK2, respectively^[1].

IC₅₀ & Target

ROCK1 5.6 nM (IC ₅₀)	ROCK2 6 nM (IC ₅₀)
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REFERENCES

[1]. Doe C, et al. Novel Rho kinase inhibitors with anti-inflammatory and vasodilatory activities. J Pharmacol Exp Ther. 2007 Jan;320(1):89-98.

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

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