HSD1590

Cat. No.:	HY-126275		
CAS No.:	2379279-96-	-4	
Molecular Formula:	C ₂₀ H ₁₈ BN ₃ O ₃		
Molecular Weight:	359.19		
Target:	ROCK		
Pathway:	Cell Cycle/D	NA Dama	ge; 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 : 100 mg/mL (278.40 mM; Need ultrasonic)							
- - 2		Solvent Mass Concentration	1 mg	5 mg	10 mg			
	Preparing Stock Solutions	1 mM	2.7840 mL	13.9202 mL	27.8404 mL			
		5 mM	0.5568 mL	2.7840 mL	5.5681 mL			
		10 mM	0.2784 mL	1.3920 mL	2.7840 mL			
	Please refer to the so	lubility information to select the app	propriate solvent.					
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 6.25 mg/mL (17.40 mM); Clear solution							
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 6.25 mg/mL (17.40 mM); Clear solution							
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 6.25 mg/mL (17.40 mM); Clear solution							

BIOLOGICALIACIA		
Description	HSD1590 is potent ROCK inhibitor, with IC ₅₀ s of 1.22 and 0.51 nM for ROCK1 and ROCK2, respectively. HSD1590 exhibits single digit nanomolar binding to ROCK (K _d s<2 nM). HSD1590 displays low cytotoxicity ^[1] .	
IC ₅₀ & Target	ROCK1 1.22 nM (IC ₅₀)	ROCK2 0.51 nM (IC ₅₀)
In Vitro	HSD1590 (0.5-1 μ M; 24 hours) exhibits an impressive attenuation in migration ^[1] .	

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HSD1590 (0.5-10 μM; 12- inhibition of live cell mig MCE has not independen	-24 horus) shows that the excellent migration inhibition observed is not due to cell death, but gration ^[1] . ntly confirmed the accuracy of these methods. They are for reference only.
Cell Viability Assay ^[1]	
Cell Line:	MDA-MB-23 cells
Concentration:	0.5-10 μΜ
Incubation Time:	12-24 hours
Result:	Exhibited approximately 80% viability at 12 hours and yielded an overall viability of 63% at 24 h.

REFERENCES

[1]. Dayal N, et al. Potently inhibiting cancer cell migration with novel 3H-pyrazolo[4,3-f]quinoline boronic acid ROCK inhibitors. Eur J Med Chem. 2019 Oct 15;180:449-456.

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

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