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Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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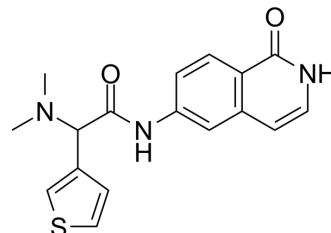
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Verosudil

Cat. No.:	HY-16758
CAS No.:	1414854-42-4
Molecular Formula:	C ₁₇ H ₁₇ N ₃ O ₂ S
Molecular Weight:	327.4
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 : 16.67 mg/mL (50.92 mM; ultrasonic and warming and heat to 60°C)					
	Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg
		1 mM		3.0544 mL	15.2718 mL	30.5437 mL
		5 mM		0.6109 mL	3.0544 mL	6.1087 mL
		10 mM		0.3054 mL	1.5272 mL	3.0544 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: ≥ 1.67 mg/mL (5.10 mM); Clear solution					
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 1.67 mg/mL (5.10 mM); Clear solution					
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 1.67 mg/mL (5.10 mM); Clear solution					

BIOLOGICAL ACTIVITY

Description	Verosudil (AR-12286) is a potent, selective Rho-kinase (ROCK) inhibitor with K _i s of 2 and 2 nM for ROCK1 and ROCK2, respectively. AR-12286 lowers intraocular pressure (IOP) primarily by increasing aqueous humour outflow through the trabecular meshwork ^{[1][2]} .			
IC ₅₀ & Target	ROCK1 2 nM (Ki)	ROCK2 2 nM (Ki)	PKA 69 nM (Ki)	MRCKA 28 nM (Ki)
	CAM2A	PKC theta		

	5855 nM (Ki)	9322 nM (Ki)
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REFERENCES

[1]. Lin CW, Sherman B, Moore LA, et al. Discovery and Preclinical Development of Netarsudil, a Novel Ocular Hypotensive Agent for the Treatment of Glaucoma. J Ocul Pharmacol Ther. 2018;34(1-2):40-51.

[2]. Kopczynski C, Novack GD, Swearingen D, van Haarlem T. Ocular hypotensive efficacy, safety and systemic absorption of AR-12286 ophthalmic solution in normal volunteers. Br J Ophthalmol. 2013;97(5):567-572.

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

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