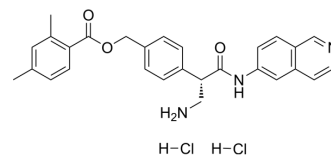


Netarsudil hydrochloride

Cat. No.:	HY-12798B
CAS No.:	1253952-02-1
Molecular Formula:	C ₂₈ H ₂₉ Cl ₂ N ₃ O ₃
Molecular Weight:	526.45
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	DMSO : 5 mg/mL (9.50 mM; Need ultrasonic)				
		Mass			
		Solvent Concentration	1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM	1.8995 mL	9.4976 mL	18.9952 mL
		5 mM	0.3799 mL	1.8995 mL	3.7990 mL
10 mM		---	---	---	
Please refer to the solubility information to select the appropriate solvent.					

BIOLOGICAL ACTIVITY

Description	Netarsudil hydrochloride (AR-13324 hydrochloride) is a Rho-associated protein kinase (ROCK) and norepinephrine transporter (NET) inhibitor. Netarsudil hydrochloride has effective in intraocular pressure (IOP) reduction ^{[1][2]} .						
IC₅₀ & Target	ROCK, NET ^{[1][2]}						
In Vivo	<p>Netarsudil hydrochloride (0.04%, 50 ML) reduces intraocular pressure (IOP) in normotensive monkey eyes^[1].</p> <p>Netarsudil hydrochloride (0.04%) produces statistically significant lowering of episcleral venous pressure (EVP) in Dutch Belted rabbits^[2].</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p> <table border="1" style="width: 100%;"> <tr> <td>Animal Model:</td> <td>Adult female cynomolgus monkeys (3-5 kg)^[1]</td> </tr> <tr> <td>Dosage:</td> <td>0.04%, 50 µL</td> </tr> <tr> <td>Administration:</td> <td>Topically applied to eye</td> </tr> </table>	Animal Model:	Adult female cynomolgus monkeys (3-5 kg) ^[1]	Dosage:	0.04%, 50 µL	Administration:	Topically applied to eye
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Dosage:	0.04%, 50 µL						
Administration:	Topically applied to eye						

Result:	Reduces IOP in normotensive monkey eyes.
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REFERENCES

[1]. Wang RF, et al. Effect of 0.04% AR-13324, a ROCK, and norepinephrine transporter inhibitor, on aqueous humor dynamics in normotensive monkey eyes. J Glaucoma. 2015 Jan;24(1):51-54.

[2]. Kiel JW, et al. Effect of AR-13324 on episcleral venous pressure in Dutch belted rabbits. J Ocul Pharmacol Ther. 2015 Apr;31(3):146-151.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA