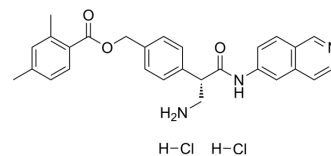


## Netarsudil hydrochloride

<b>Cat. No.:</b>	HY-12798B
<b>CAS No.:</b>	1253952-02-1
<b>Molecular Formula:</b>	C <sub>28</sub> H <sub>29</sub> Cl <sub>2</sub> N <sub>3</sub> O <sub>3</sub>
<b>Molecular Weight:</b>	526.45
<b>Target:</b>	ROCK
<b>Pathway:</b>	Cell Cycle/DNA Damage; Cytoskeleton; Stem Cell/Wnt; TGF-beta/Smad
<b>Storage:</b>	4°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



### SOLVENT & SOLUBILITY

<b>In Vitro</b>	DMSO : 5 mg/mL (9.50 mM; Need ultrasonic)				
		Mass			
		Solvent Concentration	1 mg	5 mg	10 mg
	<b>Preparing Stock Solutions</b>	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

<b>Description</b>	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 <sup>[1][2]</sup> .						
<b>IC<sub>50</sub> &amp; Target</b>	ROCK, NET <sup>[1][2]</sup>						
<b>In Vivo</b>	<p>Netarsudil hydrochloride (0.04%, 50 ML) reduces intraocular pressure (IOP) in normotensive monkey eyes<sup>[1]</sup>.</p> <p>Netarsudil hydrochloride (0.04%) produces statistically significant lowering of episcleral venous pressure (EVP) in Dutch Belted rabbits<sup>[2]</sup>.</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%;">Animal Model:</td> <td>Adult female cynomolgus monkeys (3-5 kg)<sup>[1]</sup></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) <sup>[1]</sup>	Dosage:	0.04%, 50 µL	Administration:	Topically applied to eye
Animal Model:	Adult female cynomolgus monkeys (3-5 kg) <sup>[1]</sup>						
Dosage:	0.04%, 50 µL						
Administration:	Topically applied to eye						

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Result:	Reduces IOP in normotensive monkey eyes.
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## REFERENCES

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[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.

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

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