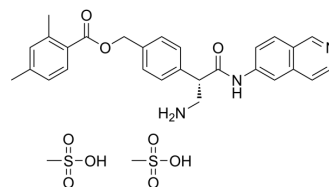


## Netarsudil dimesylate

<b>Cat. No.:</b>	HY-12798A		
<b>CAS No.:</b>	1422144-42-0		
<b>Molecular Formula:</b>	C <sub>30</sub> H <sub>35</sub> N <sub>3</sub> O <sub>9</sub> S <sub>2</sub>		
<b>Molecular Weight:</b>	645.74		
<b>Target:</b>	ROCK		
<b>Pathway:</b>	Cell Cycle/DNA Damage; Cytoskeleton; Stem Cell/Wnt; TGF-beta/Smad		
<b>Storage:</b>	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



### SOLVENT & SOLUBILITY

<b>In Vitro</b>	DMSO : 100 mg/mL (154.86 mM; Need ultrasonic)					
	<b>Preparing Stock Solutions</b>	<b>Solvent</b>	<b>Mass</b>	<b>1 mg</b>	<b>5 mg</b>	<b>10 mg</b>
		<b>Concentration</b>				
		<b>1 mM</b>		1.5486 mL	7.7431 mL	15.4861 mL
<b>5 mM</b>			0.3097 mL	1.5486 mL	3.0972 mL	
	<b>10 mM</b>		0.1549 mL	0.7743 mL	1.5486 mL	
Please refer to the solubility information to select the appropriate solvent.						
<b>In Vivo</b>	<ol style="list-style-type: none"> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 40% PEG300 &gt;&gt; 5% Tween-80 &gt;&gt; 45% saline Solubility: ≥ 2.5 mg/mL (3.87 mM); Clear solution</li> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (3.87 mM); Clear solution</li> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 90% corn oil Solubility: ≥ 2.5 mg/mL (3.87 mM); Clear solution</li> </ol>					

### BIOLOGICAL ACTIVITY

<b>Description</b>	Netarsudil mesylate (AR-13324 mesylate) is a small-molecule inhibitor of Rho kinase and a norepinephrine transporter; reduces intraocular pressure (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.

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2015 Jan;24(1):51-4.

[2]. Levy B, et al. Ocular hypotensive safety and systemic absorption of AR-13324 ophthalmic solution in normal volunteers. Am J Ophthalmol. 2015 May;159(5):980-5.e1.

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

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