

Netarsudil mesylate

Chemical Properties

CAS No. : 1422144-42-0

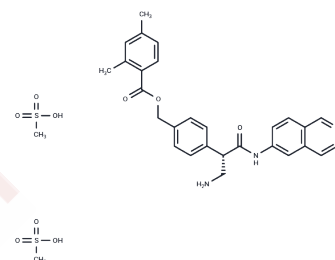
Formula: C30H35N3O9S2

Molecular Weight: 645.74

Store at low temperature

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



Biological Description

Description	Netarsudil mesylate (AR-13324 mesylate) is a Rho-related protein kinase inhibitor used to study glaucoma and hypertension.
Targets(IC50)	ROCK
In vivo	0.04% Netarsudil mesylate reduces intraocular pressure (IOP) in normotensive monkey eyes . [1] 0.04% Netarsudil mesylate produces a statistically significant lowering of episcleral venous pressure (EVP) in Dutch Belted rabbits . [2]

Solubility Information

Solubility	DMSO: 80 mg/mL (123.89 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 3.3 mg/mL (5.11 mM),Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.5486 mL	7.7431 mL	15.4861 mL
5 mM	0.3097 mL	1.5486 mL	3.0972 mL
10 mM	0.1549 mL	0.7743 mL	1.5486 mL
50 mM	0.031 mL	0.1549 mL	0.3097 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

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):51-4.

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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