

SAR407899

Chemical Properties

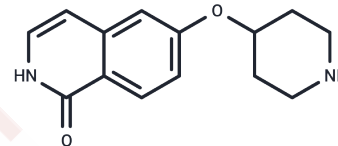
CAS No. : 923359-38-0

Formula: C₁₄H₁₆N₂O₂

Molecular Weight: 244.29

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	SAR407899 is Rho kinase inhibitor potently inhibits endothelin-1-induced constriction of renal resistance arteries.
Targets(IC50)	Rho,ROCK
In vivo	In vivo, SAR407899 dose-dependently induced rabbit penile erection, with greater potency and longer duration of action than sildenafil[1].
Animal Research	Compared the effects of SAR407899, the Rho-kinase inhibitor Y-27632 and the PDE5 inhibitor sildenafil for their ability to relax corpus cavernosum strips contracted with phenylephrine in healthy and diabetic animals. Strips were obtained from WKY, spontaneous hypertensive (SHR), control CD, and diabetic CD rats, humans, control and diabetic rabbits. Diabetes was induced by streptozotocin or alloxan injection. In vivo penile erection (length) induced by drugs was measured in conscious rabbits[1].

Solubility Information

Solubility	DMSO: 6 mg/mL (24.56 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	4.0935 mL	20.4675 mL	40.935 mL
5 mM	0.8187 mL	4.0935 mL	8.187 mL
10 mM	0.4093 mL	2.0467 mL	4.0935 mL
50 mM	0.0819 mL	0.4093 mL	0.8187 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

Guagnini F , Ferazzini M , Grasso M , et al. Erectile properties of the Rho-kinase inhibitor SAR407899 in diabetic animals and human isolated corpora cavernosa[J]. Journal of Translational Medicine, 2012, 10(1):59-0.

Grisk O, Schlüter T, Reimer N, et al. The Rho kinase inhibitor SAR407899 potentially inhibits endothelin-1-induced constriction of renal resistance arteries[J]. J Hypertens. 2012 May;30(5):980-9.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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