

YS-49 monohydrate (132836-42-1 free base)

Chemical Properties

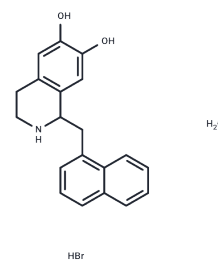
CAS No. :

Formula: C₂₀H₂₂BrNO₃

Molecular Weight: 404.3

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	YS-49 (monohydrate) is an activator of PI3K/Akt (a downstream target of RhoA).
Targets(IC50)	Others
In vitro	In RAVSMC and RAW 264.7 cells, YS-49 (1-100 μM; 18 hours;) concentration-dependently inhibits the accumulation of nitrite in both RAVSMC and RAW 264.7 exposed to lipopolysaccharide (LPS) plus INF-γ, with IC50 values of 22 μM and 30 μM, respectively[2].At the transcriptional level, YS-49 (10-100 μM; 18 hours; RAVSMC and RAW 264.7 cells) suppresses iNOS gene expression induced by LPS and/or cytokines in RAVSMC and RAW 264.7 cells [2].
In vivo	In male Sprague Dawley rats,YS-49 (5 mg/kg; intraperitoneal injection; 8 hours;) treatment significantly reduces serum NOx levels in LPS-treated rats, the NOx levels reduce from 86 μM to 34 μM[2].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.4734 mL	12.3671 mL	24.7341 mL
5 mM	0.4947 mL	2.4734 mL	4.9468 mL
10 mM	0.2473 mL	1.2367 mL	2.4734 mL
50 mM	0.0495 mL	0.2473 mL	0.4947 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

Sun JJ, et al. YS 49, 1-(alpha-naphtylmethyl)-6,7-dihydroxy-1,2,3,4-tetrahydroisoquinoline, regulates angiotensin II-stimulated ROS production, JNK phosphorylation and vascular smooth muscle cell proliferation via the induction of heme oxygenase-1. *Life Sci.* 2008 Mar 12;82(11-12):600-7.

Kang YJ, et al. Prevention of the expression of inducible nitric oxide synthase by a novel positive inotropic agent, YS 49, in rat vascular smooth muscle and RAW 264.7 macrophages. *Br J Pharmacol.* 1999 Sep;128(2):357-64.

Hsu YH, et al. RhoA-mediated inhibition of vascular endothelial cell mobility: positive feedback through reduced cytosolic p21 and p27. *J Cell Physiol.* 2014 Oct;229(10):1455-65.

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