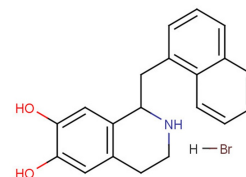


YS-49

Chemical Properties

CAS No.:	132836-42-1
Formula:	C ₂₀ H ₂₀ BrNO ₂
Molecular Weight:	386.28
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).



Biological Description

Description	YS-49 is an activator of PI3K/Akt (a downstream target of RhoA).
Targets(IC ₅₀)	Others: None
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].

Solubility Information

Solubility	DMSO: 100 mg/mL (258.88 mM) (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.589 mL	12.944 mL	25.888 mL
5 mM	0.518 mL	2.589 mL	5.178 mL
10 mM	0.259 mL	1.294 mL	2.589 mL
50 mM	0.052 mL	0.259 mL	0.518 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

Reference

- Sun JJ, Kim HJ, Seo HG, et al. YS49, 1-(alpha-naphthylmethyl)-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;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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