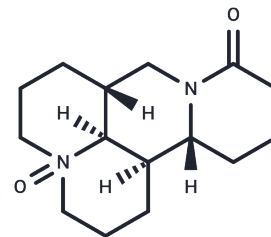


Oxysophoridine

Chemical Properties

CAS No. :	54809-74-4
Formula:	C ₁₅ H ₂₄ N ₂ O ₂
Molecular Weight:	264.36
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	Oxysophoridine (Sophoridine N-oxide) has a protective effect on focal cerebral ischemic injury through antioxidant and anti-apoptotic mechanisms; it may be a potential neuroprotective agent for cerebral ischemia injury, that the effect may be due to its ability to inhibit oxidative stress and expression of the N-methyl-D-aspartate receptor subunit NR1. Oxysophoridine ameliorates cardiac damage in a rat model of AMI and that this cardioprotection may be linked with its anti-oxidative, anti-apoptotic and anti-inflammatory properties.
Targets(IC50)	Apoptosis, Antioxidant

Solubility Information

Solubility	DMSO: 25 mg/mL (94.57 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: 2 mg/mL (7.57 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	3.7827 mL	18.9136 mL	37.8272 mL
5 mM	0.7565 mL	3.7827 mL	7.5654 mL
10 mM	0.3783 mL	1.8914 mL	3.7827 mL
50 mM	0.0757 mL	0.3783 mL	0.7565 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

Rui C , Yuxiang L , Ning J , et al. Anti-apoptotic and Neuroprotective Effects of Oxysophoridine on Cerebral Ischemia Both In Vivo and In Vitro[J]. *Planta Medica*, 2013, 79(11):916-923.

Cong, Meng, Chuan, et al. Oxysophoridine attenuates the injury caused by acute myocardial infarction in rats through anti-oxidative, anti-inflammatory and anti-apoptotic pathways.[J]. *Molecular Medicine Reports*, 2015.

Wang T F , Lei Z , Li Y X , et al. Oxysophoridine Protects Against Focal Cerebral Ischemic Injury by Inhibiting Oxidative Stress and Apoptosis in Mice[J]. *Neurochemical Research*, 2013, 38(11):2408-2417.

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