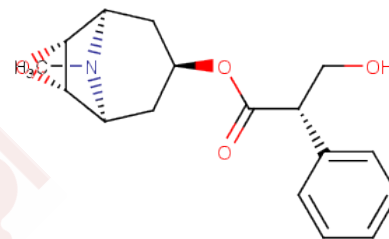


Scopolamine

Chemical Properties

CAS No. :	51-34-3
Formula:	C ₁₇ H ₂₁ NO ₄
Molecular Weight:	303.35
Storage:	Keep away from direct sunlight Powder: -20°C for 3 years In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



Biological Description

Description	Scopolamine is a high-affinity (nanomolar level) muscarinic receptor antagonist that can reversibly inhibit 5-HT ₃ receptor responses (IC ₅₀ = 2.09 μM). It is commonly used to induce animal models of Alzheimer's disease or memory impairment.
Targets(IC50)	5-HT Receptor,Endogenous Metabolite,AChR

Solubility Information

Solubility	DMSO: 75 mg/mL (247.24 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 (6.59 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	3.2965 mL	16.4826 mL	32.9652 mL
5 mM	0.6593 mL	3.2965 mL	6.593 mL
10 mM	0.3297 mL	1.6483 mL	3.2965 mL
50 mM	0.0659 mL	0.3297 mL	0.6593 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

ChoiMiRan, Young L M , Eun H J , et al. Rubus coreanus Miquel Ameliorates Scopolamine-Induced Memory Impairments in ICR Mice[J]. Journal of Medicinal Food, 2014, 17(10):1049-56.

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