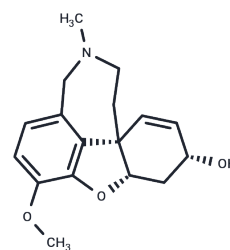


Galanthamine

Chemical Properties

CAS No. :	357-70-0
Formula:	C ₁₇ H ₂₁ NO ₃
Molecular Weight:	287.35
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	Galanthamine (Galantamine) is an acetylcholinesterase (AChE) inhibitor (IC ₅₀ : 500 nM), can reduce brain damage induced by hypoxia-ischemia.
Targets(IC ₅₀)	Apoptosis, Cholinesterase (ChE)
In vivo	Galanthamine is a selective, reversible competitive acetylcholinesterase inhibitor that has been approved for the symptomatic treatment of Alzheimer's disease[1]

Solubility Information

Solubility	DMSO: 58.82 mg/mL (204.7 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	3.4801 mL	17.4004 mL	34.8008 mL
5 mM	0.696 mL	3.4801 mL	6.9602 mL
10 mM	0.348 mL	1.740 mL	3.4801 mL
50 mM	0.0696 mL	0.348 mL	0.696 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

Luis Marco M D C C . Galanthamine, a Natural Product for the Treatment of Alzheimer's Disease[J]. Recent Patents on Cns Drug Discovery, 2006, 1(1):p.105-111.

Chen J, Li T, Huang D, et al. Integrating UHPLC-MS/MS quantitative analysis and exogenous purine supplementation to elucidate the antidepressant mechanism of Chaigui granules by regulating purine metabolism. Journal of Pharmaceutical Analysis. 2023

S López-Pousa, Garre-Olmo J , Vilalta-Franch J . [Galanthamine versus donepezil in the treatment of Alzheimer's disease][J]. Revista De Neurologia, 2007, 44(11):677-684.

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