

Tacrine

Chemical Properties

CAS No.:	321-64-2
Formula:	C ₁₃ H ₁₄ N ₂
Molecular Weight:	198.27
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).

Biological Description

Description	Tacrine is an indirect cholinergic agonist and centrally acting anticholinesterase. It is approved for the treatment of Alzheimer's disease.
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Solubility Information

Solubility	Water: Insoluble DMSO: Soluble (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	5.044 mL	25.218 mL	50.436 mL
5 mM	1.009 mL	5.044 mL	10.087 mL
10 mM	0.504 mL	2.522 mL	5.044 mL
50 mM	0.101 mL	0.504 mL	1.009 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

1. Ismaili L, Refouvet B, Benchekroun M, Brogi S, Brindisi M, Gemma S, Campiani G, Filipic S, Agbaba D, Esteban G, Unzeta M, Nikolic K, Butini S, Marco-Contelles J. Multitarget compounds bearing tacrine- and donepezil-like structural and functional motifs for the potential treatment of Alzheimer's disease. *Prog Neurobiol*. 2016 Jan 18. pii: S0301-0082(15)00162-8. doi: 10.1016/j.pneurobio.2015.12.003. [Epub ahead of print] Review. PubMed PMID: 26797191.
2. Minarini A, Milelli A, Simoni E, Rosini M, Bolognesi ML, Marchetti C, Tumiatti V. Multifunctional tacrine derivatives in Alzheimer's disease. *Curr Top Med Chem*. 2013;13(15):1771-86. Review. PubMed PMID: 23931443.
3. Romero A, Cacabelos R, Oset-Gasque MJ, Samadi A, Marco-Contelles J. Novel tacrine-related drugs as potential candidates for the treatment of Alzheimer's disease. *Bioorg Med Chem Lett*. 2013 Apr 1;23(7):1916-22. doi: 10.1016/j.bmcl.2013.02.017. Epub 2013 Feb 16. Review. PubMed PMID: 23481643.
4. Korábečný J, Spilovská K, Benek O, Musílek K, Soukup O, Kuča K. [Tacrine and its derivatives in the therapy of Alzheimers disease]. *Ceska Slov Farm*. 2012 Oct;61(5):210-21. Review. Czech. PubMed PMID: 23256654.

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