

Product Data Sheet

Product Name: Tacrine
Cat. No.: GC64882

Chemical Properties

Cas. No. 321-64-2

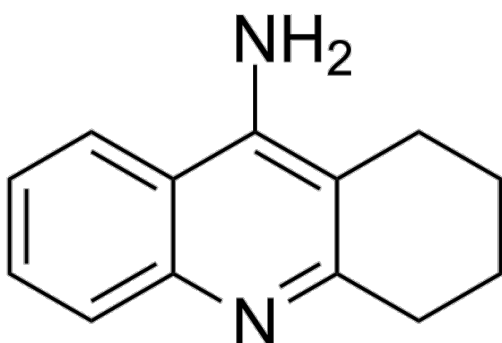
Formula $C_{13}H_{14}N_2$ M.Wt 198.26

Solubility DMSO : ≥ 100 mg/mL (504.39 mM) Storage 4°C, away from moisture and light

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT, or blue ice upon request.

Structure



Background

Tacrine is a potent acetylcholinesterase (AChE) inhibitor ($IC_{50}=109$ nM), also acting as a CYP1A2 substrate drug. Tacrine exhibits certain hepatotoxicity in some individuals. Tacrine can be used for researching Alzheimer's disease (AD)[1][2][3].

[1]. Patocka J, et al. Possible role of hydroxylated metabolites of tacrine in drug toxicity and therapy of Alzheimer's disease. *Curr Drug Metab.* 2008;9(4):332-335.

[2]. Bhatt S, et al. Assessment of the CYP1A2 Inhibition-Mediated Drug Interaction Potential for Pinocembrin Using In Silico, In Vitro, and In Vivo Approaches. *ACS Omega.* 2022;7(23):20321-

Caution: Product has not been fully validated for medical applications. For research use only.

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20331. Published 2022 Jun 2.

[3]. Romero A, et al. Novel tacrine-related drugs as potential candidates for the treatment of Alzheimer's disease. Bioorg Med Chem Lett. 2013;23(7):1916-1922.

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