

Product Data Sheet

Product Name: Ipidacrine

Cat. No.: GC49299

Chemical Properties

Cas. No. 62732-44-9

SMILES NC1=C(CCC2)C2=NC3=C1CCCC3

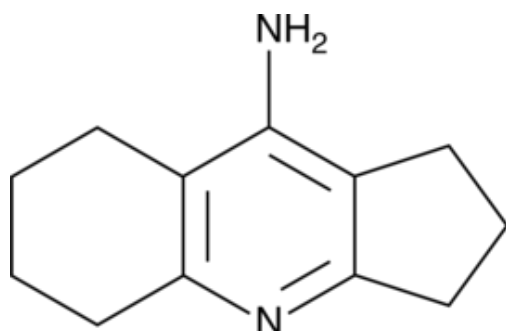
Formula C₁₂H₁₆N₂ M.Wt 188.3

Solubility DMF: 25 mg/ml, DMSO: 25 mg/ml, DMSO:PBS (pH 7.2) (1:3): 0.25 mg/ml
Storage -20°C

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

Ipidacrine is an inhibitor of acetylcholinesterase (AChE; IC₅₀ = 270 nM).¹ It induces long-term potentiation (LTP) in rat hippocampal slices, an effect that can be blocked by the muscarinic antagonists atropine or pirenzepine, when used at a concentration of 10 μM.² Ipidacrine (0.03-1 mg/kg) prevents memory deficits induced by the anticholinergic agent scopolamine in the passive avoidance test in rats.²

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

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

Product Data Sheet

1.Ogura, H., Kosasa, T., Kuriya, Y., et al.Comparison of inhibitory activities of donepezil and other cholinesterase inhibitors on acetylcholinesterase and butyrylcholinesterase in vitroMethods Find. Exp. Clin. Pharmacol.22(8)609-613(2000) 2.Yoshida, S., and Suzuki, N.Antiamnesic and cholinomimetic side-effects of the cholinesterase inhibitors, physostigmine, tacrine and NIK-247 in ratsEur. J. Pharmacol.250(1)117-124(1993)

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

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA