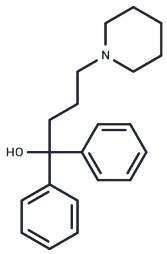
Data Sheet (Cat.No.T21420)

TargetMol

Diphenidol

Chemical Properties



CAS No. : 972-02-1

Formula: C21H27NO

Molecular Weight: 309.45

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year
Actual storage temperature shall be subject to the COA.

Biological Description

Description	Diphenidol, a muscarinic antagonist, is employed as an antivertigo and antiemetic agent.
Targets(IC50)	Others,AChR,Sodium Channel

Solubility Information

Solubility	H2O: Insoluble, DMSO: Soluble, (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.2315 mL	16.1577 mL	32.3154 mL
5 mM	0.6463 mL	3.2315 mL	6.4631 mL
10 mM	0.3232 mL	1.6158 mL	3.2315 mL
50 mM	0.0646 mL	0.3232 mL	0.6463 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

Zhang L, Ma J, Li S, Xue R, Jin M, Zhou Y. Fatal diphenidol poisoning: a case report and a retrospective study of 16 cases. Forensic Sci Med Pathol. 2015 Dec;11(4):570-6. doi: 10.1007/s12024-015-9709-1. Epub 2015 Oct 19. PubMed PMID: 26481789.

Lin HT, Chiu CC, Wang JJ, Hung CH, Chen YW. High frequency transcutaneous electrical nerve stimulation with diphenidol administration results in an additive antiallodynic effect in rats following chronic constriction injury. Neurosci Lett. 2015 Mar 4;589:62-6. doi: 10.1016/j.neulet.2015.01.026. Epub 2015 Jan 14. PubMed PMID: 25596445.

Chen YW, Tzeng JI, Liu KS, Yu SH, Hung CH, Wang JJ. Systemic diphenidol reduces neuropathic allodynia and TNF-alpha overexpression in rats after chronic constriction injury. Neurosci Lett. 2013 Sep 27;552:62-5. doi: 10.1016/j.neulet.2013.07.030. Epub 2013 Jul 31. PubMed PMID: 23916656.

Leung YM, Wong KL, Cheng KS, Kuo CS, Su TH, Chen YW, Cheng TH. Inhibition of voltage-gated K+ channels and Ca2+ channels by diphenidol. Pharmacol Rep. 2012;64(3):739-44. PubMed PMID: 22814027.