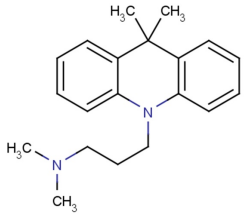
Data Sheet (Cat.No.T15132)

TargetMol
A DRUG SCREENING EXPERT

Dimetacrine

Chemical Properties



CAS No.:	4757-55-5
Formula:	C20H26N2
Molecular Weight:	294.43
Appearance:	N/A
Storage:	0-4℃ for short term (days to weeks), or -20℃ for long term (months).

Biological Description

Description	Dimetacrine is a useful antidepressant.
Targets(IC_{50})	Others: None
In vivo	Dimetacrine (0.3 μM) causes no statistically significant decline in contractile force from the controls. Dimetacrine (10 μM), the highest concentration, decreases the contractile force to 36.5±9.1%. Tachycardia is observed after the administration of Dimetacrine (1 to 3 mg/kg, i.v.) and the maximum response is obtained in a dose of 3 mg/kg i.v. Dimetacrine (30 mg/kg. i.v.), induces an abrupt fall in blood pressure with tachycardia or bradycardia followed by cardiac arrest. Respiratory rate increases 40 min after the onset of the infusion of Dimetacrine. However, arterial blood pressure falls 50 min after the onset of the infusion of Dimetacrine.

Solubility Information

Solubility	< 1 mg/ml refers to the product slightly soluble or insoluble

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.396 mL	16.982 mL	33.964 mL
5 mM	0.679 mL	3.396 mL	6.793 mL
10 mM	0.34 mL	1.698 mL	3.396 mL
50 mM	0.068 mL	0.34 mL	0.679 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 ℃ for 6 months; - 20 ℃ for 1 month. Please use it as soon as possible.

Reference

1. Kato H, et al. Comparison of cardiovascular toxicities induced by dimetacrine, imipramine and amitriptyline in isolated guinea pig atria and anesthetized dogs. Jpn J Pharmacol. 1974 Dec;24(6):885-91.

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