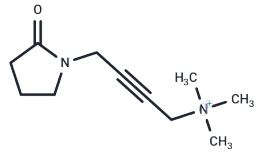
Data Sheet (Cat.No.T12339)

TargetMol
YOUR TARGET MOLECULES

Oxotremorine M iodide

Chemical Properties



CAS No. : 3854-04-4

Formula: C11H19IN2O

Molecular Weight: 322.19

Appearance: no data available

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Biological Description

Description	Oxotremorine M iodide (Oxotremorine methiodide) is an agonist of mAChR and potentiates NMDA receptors.
Targets(IC50)	AChR
In vitro	Oxotremorine M iodide robustly elicits a phosphoinositide response (EC50 = 0.22 μM). Oxotremorine M iodide shows EC50s of 0.36, 0.52, 1.62, and 1.48 μM for wild-type, M2, M3, and M2/M3 knockout mice, respectively[1]. Oxotremorine M iodide (0.1-30 μM) dose-dependently inhibits KCNQ2/3 currents[2].
In vivo	In male Sprague-Dawley albino rats, Oxotremorine M iodide (0.5 mg/kg; s.c.) increases DA release in the medial prefrontal cortex without affecting the nucleus accumbens[4].

Solubility Information

Solubility	DMSO: 100 mg/mL (310.4 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.1038 mL	15.5188 mL	31.0376 mL
5 mM	0.6208 mL	3.1038 mL	6.2075 mL
10 mM	0.3104 mL	1.5519 mL	3.1038 mL
50 mM	0.0621 mL	0.3104 mL	0.6208 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.

Reference

Tran JA, et al. Differential coupling of muscarinic M1, M2, and M3 receptors to phosphoinositide hydrolysis in urinary bladder and longitudinal muscle of the ileum of the mouse. J Pharmacol Exp Ther. 2006 Aug;318(2):649-

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