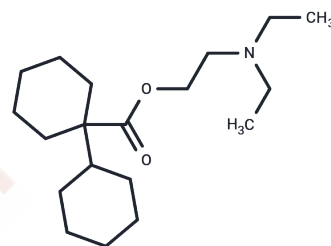


Dicyclomine

Chemical Properties

CAS No. :	77-19-0
Formula:	C ₁₉ H ₃₅ NO ₂
Molecular Weight:	309.49
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	Dicyclomine (Dicycloverine) is a potent, orally active antagonist of muscarinic cholinergic receptors, specifically M1 and M2 subtypes, with K_i values of 5.1 nM and 54.6 nM in brush-border and basal plasma membranes, respectively [1] [2]. As an antispasmodic agent, it relieves smooth muscle spasm of the gastrointestinal tract in vivo.
Targets(IC50)	Others,AChR
In vivo	Intraperitoneal injections of Dicyclomine (Dicycloverine), administered daily at doses of 2.0, 4.0, and 8.0 mg/kg for a week, significantly impaired cognitive performance and memory in C57Bl/6 mice, with a pronounced effect observed in the paired-associates learning (PAL) task. Notably, at the highest dosage (8 mg/kg), Dicyclomine exacerbated cognitive impairments across all measurements. Furthermore, 3xTg-AD mice treated with Dicyclomine displayed worse memory impairments than NonTg mice treated similarly. Lower doses also led to behavioral impairments in spatial tasks, suggesting that Dicyclomine's detrimental effects on cognition result from its actions beyond the hippocampus.

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.2311 mL	16.1556 mL	32.3112 mL
5 mM	0.6462 mL	3.2311 mL	6.4622 mL
10 mM	0.3231 mL	1.6156 mL	3.2311 mL
50 mM	0.0646 mL	0.3231 mL	0.6462 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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