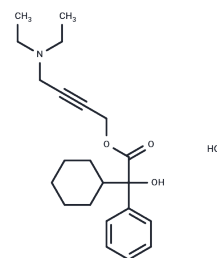


Oxybutynin chloride

Chemical Properties

CAS No. :	1508-65-2
Formula:	C ₂₂ H ₃₂ ClNO ₃
Molecular Weight:	393.96
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	Oxybutynin chloride (Oxybutynin HCl) is an anticholinergic medication used to relieve urinary and bladder difficulties. It competitively antagonizes the M1, M2, and M3 subtypes of the muscarinic acetylcholine receptor.
Targets(IC50)	AChR, Potassium Channel
In vitro	Oxybutynin relieves urinary and bladder difficulties, including frequent urination and inability to control urination (urge incontinence), by decreasing muscle spasms of the bladder. Oxybutynin competitively antagonizes the M1, M2, and M3 subtypes of the muscarinic acetylcholine receptor. [1] Oxybutynin also has direct spasmolytic effects on bladder smooth muscle as a calcium antagonist and local anesthetic, but at concentrations far above those used clinically. [2]

Solubility Information

Solubility	Ethanol: 73 mg/mL (185.3 mM), Sonication is recommended. DMSO: 55 mg/mL (139.61 mM), Sonication is recommended. H ₂ O: 4 mg/mL (10.15 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2 mg/mL (5.08 mM), Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.5383 mL	12.6916 mL	25.3833 mL
5 mM	0.5077 mL	2.5383 mL	5.0767 mL
10 mM	0.2538 mL	1.2692 mL	2.5383 mL
50 mM	0.0508 mL	0.2538 mL	0.5077 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

Yarker YE, et al. *Drugs Aging*, 1995, 6(3), 243-262.

Anderson RU, et al. *J Urol*, 1999, 161(6), 1809-1812.

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