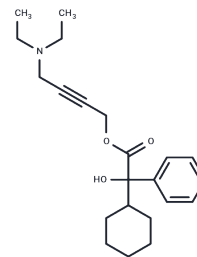


Oxybutynin

Chemical Properties

CAS No. :	5633-20-5
Formula:	C ₂₂ H ₃₁ NO ₃
Molecular Weight:	357.49
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	Oxybutynin (Ditropan) is a synthetic anticholinergic agent that is used for treatment of urinary incontinence and overactive bladder syndrome.
Targets(IC50)	AChR,Potassium Channel
In vitro	In human liver microsomes, Oxybutynin inhibits CYP3A4- and CYP2D6-associated activities (testosterone 6β-hydroxylase and dextromethorphan O-demethylase, respectively).Oxybutynin (30,100 nM) competitively antagonizes acetylcholine-induced contraction.
In vivo	In human liver microsomes, Oxybutynin inhibits CYP3A4- and CYP2D6-associated activities (testosterone 6β-hydroxylase and dextromethorphan O-demethylase, respectively).Oxybutynin (30,100 nM) competitively antagonizes acetylcholine-induced contraction.

Solubility Information

Solubility	H ₂ O: < 1 mg/mL (insoluble or slightly soluble), Ethanol: 66 mg/mL (184.62 mM),Sonication is recommended. DMSO: 45 mg/mL (125.88 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.7973 mL	13.9864 mL	27.9728 mL
5 mM	0.5595 mL	2.7973 mL	5.5946 mL
10 mM	0.2797 mL	1.3986 mL	2.7973 mL
50 mM	0.0559 mL	0.2797 mL	0.5595 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

- Lukkari E, et al. *Pharmacol Toxicol*, 1998, 82(4), 161-166.
- Tonini M, et al. *J Pharm Pharmacol*, 1987, 39(2), 103-107.
- Comar JF, et al. *Pharmacol Toxicol*, 2003, 93(3), 147-152.
- Yoshida A, et al. *Life Sci*, 2010, 87(5-6), 175-180.
- Guarneri L, et al. *Pharmacol Res*, 1991, 24(3), 263-272.

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