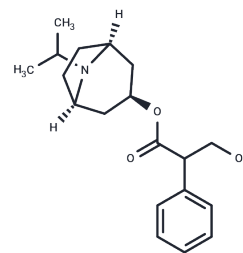


N-Isopropylnoratropine

Chemical Properties

CAS No. :	22235-81-0
Formula:	C ₁₉ H ₂₇ NO ₃
Molecular Weight:	317.42
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	N-Isopropylnoratropine is a noratropine derivative and an intermediate in the production of ipratropium, an atropine-like bronchodilator drug via an anticholinergic pathway. N-Isopropylnoratropine is used to examine the stability of ipratropium [1].
Targets(IC50)	Others

Solubility Information

Solubility	DMSO: 65 mg/mL (204.78 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	3.1504 mL	15.752 mL	31.504 mL
5 mM	0.6301 mL	3.1504 mL	6.3008 mL
10 mM	0.315 mL	1.5752 mL	3.1504 mL
50 mM	0.063 mL	0.315 mL	0.6301 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

- Kasawar GB, Farooqui M. Development and validation of a stability indicating RP-HPLC method for the simultaneous determination of related substances of albuterol sulfate and ipratropium bromide in nasal solution. *J Pharm Biomed Anal.* 2010 May 1;52(1):19-29.
- Groeben H, Brown RH. Ipratropium decreases airway size in dogs by preferential M2 muscarinic receptor blockade in vivo. *Anesthesiology.* 1996 Oct;85(4):867-73.
- Crimi N, Palermo F, Oliveri R, et al. Influence of antihistamine (astemizole) and anticholinergic drugs (ipratropium bromide) on bronchoconstriction induced by substance P. *Ann Allergy.* 1990 Aug;65(2):115-20.

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