

Atropine Oxide Hydrochloride

Chemical Properties

CAS No. : 4574-60-1

Formula: C₁₇H₂₄ClNO₄

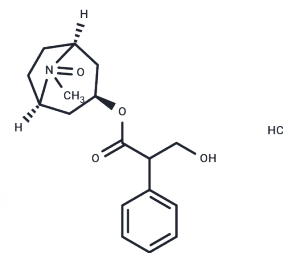
Molecular Weight: 341.83

Storage:

Keep away from direct sunlight, Keep away from moisture, Store at low temperature

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 | Atropine Oxide Hydrochloride is a derivative of Atropine. Atropine is utilized in research involving nerve agent and pesticide poisoning models, selected forms of bradycardia, and salivary secretion regulation during surgical procedures. Atropine functions as a competitive antagonist of muscarinic acetylcholine receptor subtypes M1, M2, M3, M4, and M5 and is classified as an anticholinergic (parasympatholytic) compound. Atropine Oxide Hydrochloride is therefore relevant for pharmacological investigations involving cholinergic neurotransmission, receptor antagonism, autonomic nervous system regulation, and toxicological response mechanisms. |
| Targets(IC50) | AChR |

Solubility Information

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|------------|---|
| Solubility | DMSO: 3.5 mg/mL (10.24 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble) |
|------------|---|

Preparing Stock Solutions

| | 1mg | 5mg | 10mg |
|-------|-----------|------------|------------|
| 1 mM | 2.9254 mL | 14.6272 mL | 29.2543 mL |
| 5 mM | 0.5851 mL | 2.9254 mL | 5.8509 mL |
| 10 mM | 0.2925 mL | 1.4627 mL | 2.9254 mL |
| 50 mM | 0.0585 mL | 0.2925 mL | 0.5851 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

Barlow RB, et al. Affinities of the protonated and non-protonated forms of hyoscine and hyoscine N-oxide for muscarinic receptors of the guinea-pig ileum and a comparison of their size in solution with that of atropine. Br J Pharmacol. 1981 Apr;72(4):657-64.

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