



LKT Laboratories, Inc.

Atropine

Phone: 888-558-5227
651-644-8424
Fax: 888-558-7329
Email: getinfo@lktlabs.com
Web: lktlabs.com

Product Information

Product ID A7868

CAS No. 51-55-8

Chemical Name

Synonym

Formula $C_{17}H_{23}NO_3$

Formula Wt. 289.37

Melting Point

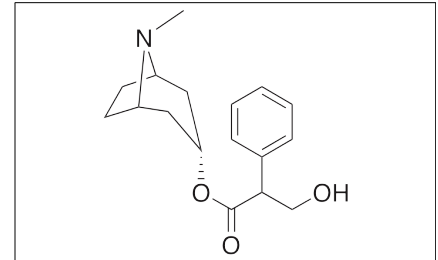
Purity $\geq 98\%$

Solubility 16mg/ml in ethanol
10mg/ml in DMSO
2mg/ml in DMF

Store Temp Ambient

Ship Temp Ambient

Description Atropine is a tropane alkaloid found in plants in the *Solanaceae* family. Atropine is an anticholinergic compound that also exhibits analgesic and antinociceptive activities. Atropine is a competitive inhibitor of muscarinic acetylcholine receptors (mAChRs) that is commonly used for ophthalmic treatments such as initiating mydriasis. Atropine displays cardiostimulatory/positive inotropic activity as well, increasing heart rate by inhibiting vagal nerve activity. In animal models of thermal pain, atropine exhibits analgesic activity; in other animal models, atropine inhibits histamine-induced increases in thromboxane A₂ (TxA₂) levels.



Bulk quantities available upon request

Product ID	Size
A7868	1 g
A7868	5 g
A7868	25 g
A7868	100 g

References Ghelardini C, Malmberg-Aiello P, Giotti A, et al. Investigation into atropine-induced antinociception. *Br J Pharmacol.* 1990 Sep;101(1):49-54. PMID: 2282466.

Alberts P, Ogren VR. Interaction of forskolin with the effect of atropine on [3H]acetylcholine secretion in guinea-pig ileum myenteric plexus. *J Physiol.* 1988 Jan;395:441-53. PMID: 2457681.

Berti F, Folco GC, Giachetti A, et al. Atropine inhibits thromboxane A₂ generation in isolated lungs of the guinea-pig. *Br J Pharmacol.* 1980 Mar;68(3):467-72. PMID: 7052339.

Caution: This product is intended for laboratory and research use only. It is not for human or drug use.