



LKT Laboratories, Inc.

Scopolamine Hydrobromide Trihydrate

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Product Information

Product ID S1059

CAS No. 6533-68-2

Chemical Name

Synonym Scopolamine hydrobromide, Scopolammonium

Formula $C_{17}H_{21}NO_4 \cdot HBr \cdot 3H_2O$

Formula Wt. 438.32

Melting Point 195° C

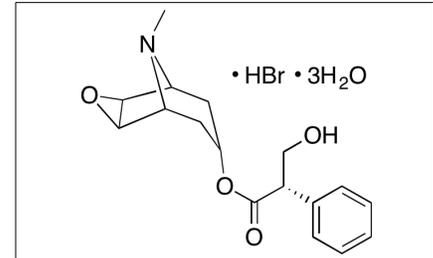
Purity ≥98%

Solubility Soluble in water (≥600 mg/mL), ethanol (50 mg/mL). Slightly soluble in chloroform.

Store Temp Ambient

Ship Temp Ambient

Description Scopolamine is a tropane alkaloid found in *Solanaceae* family plants that exhibits antiemetic and anticholinergic activities. Scopolamine inhibits muscarinic acetylcholine receptors (mAChRs) with a moderate selectivity for M1 mAChRs. Scopolamine is used to induce cognitive deficits in animal models of Alzheimer's disease. Additionally, scopolamine displays some antidepressant activity and has previously been used in the treatment of organophosphate poisoning.



Bulk quantities available upon request

Product ID	Size
S1059	1 g
S1059	5 g
S1059	25 g

References Jung IH, Lee HE, Park SJ, et al. Ameliorating effect of spinosin, a C-glycoside flavonoid, on scopolamine-induced memory impairment in mice. *Pharmacol Biochem Behav.* 2014 May;120:88-94. PMID: 24582850.

Drevets WC, Zarate CA Jr, Furey ML. Antidepressant effects of the muscarinic cholinergic receptor antagonist scopolamine: a review. *Biol Psychiatry.* 2013 Jun 15;73(12):1156-63. PMID: 23200525.

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