
Product Data Sheet

Product Name: Scopolamine hydrobromide trihydrate

Cat. No.: GC63182

Chemical Properties

Cas. No. 6533-68-2

Formula $C_{17}H_{28}BrNO_7$

M.Wt 438.31

Solubility DMSO : 88mg/mL; Water : 88mg/mL

Storage Store at 4°C

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure **Background**

Scopolamine is a tropane alkaloid that can be found in many plants of the *Solanaceae* (nightshade) family.¹ It is a muscarinic receptor antagonist that can be used to induce memory impairment in animals.^{2,3,4} Scopolamine prevents motion sickness, nausea, and vomiting in animals.^{3,5}

1.Ziegler, J., and Facchini, P.J. Alkaloid biosynthesis: Metabolism and trafficking *Annu. Rev. Plant Biol.* 59:735-769(2008) 2.Woods, S., Clarke, N.N., Layfield, R., et al. 5-HT(6) receptor agonists and antagonists enhance learning and memory in a conditioned emotion response paradigm by modulation of cholinergic and glutamatergic mechanisms *Br. J. Pharmacol.* 167:436-449(2012) 3.Soto, E., and Vega, R. Neuropharmacology of vestibular system disorders *Curr. Neuropharmacol.* 8(1):26-40(2010) 4.Shannon, H.E., Hart, J.C., Bymaster, F.P., et al. Muscarinic receptor agonists, like dopamine receptor antagonist antipsychotics, inhibit conditioned avoidance response in rats *J. Pharmacol. Exp. Ther.* 290(2):901-907(1999) 5.Grynkiewicz, G., and Gadzikowska, M. Tropane alkaloids as medicinally useful natural products and their synthetic derivatives as new drugs *Pharmacol. Rep.* 60(4):439-463(2008)

Caution: Product has not been fully validated for medical applications. For research use only.

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