Product Data Sheet

Product Name: Atropine methyl bromide
Cat. No.: GC35427

Chemical Properties

Cas. No.	2870-71-5		
SMILES	C[N+]1([C@H]2C[C@H](OC(C(C3=CC=CC=C3)CO)=O)C[C@@H]1CC2)C.[Br-]		
Formula	$C_{18}H_{26}BrNO_3$	M.Wt	384.31
Solubility	DMSO: 150 mg/mL (390.31 mM)	Storage	Store at -20°C
General tips	For obtaining a higher solubility , please warm the tube at 37 ℃ and shake it in the ultrasonic bath for a while.Stock solution can be stored below -20℃ 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	Atropine methyl bromide		

Background

Methylatropine is an antagonist of muscarinic acetylcholine receptors (IC_{50} = <0.1 nM in a radioligand binding assay using isolated porcine brain membranes) and a derivative of atropine .[1,2] It reduces acetylcholine-induced decreases in blood pressure in rats when administered intravenously with an ED_{50} value of 5.5 ?g/kg.[2] Methylatropine reduces salivation, induces mydriasis, and increases heart rate in dogs.[3]

1.Schmeller, T., Sporer, F., Sauerwein, M., et al.Binding of tropane alkaloids to nicotinic and muscarinic acetylcholine receptorsPharmazie50(7)493-495(1995) 2.Brezenoff, H.E., Xiao, Y.-F., and Vargas, H.A comparison of the central and peripheral antimuscarinic effects of atropine and methylatropine injected systemically and into the cerebral ventriclesLife Sci.42(8)905-911(1988) 3.Albanus, L.Central and peripheral effects of anticholinergic compoundsActa Pharmacol. Toxicol. (Copenh)28(4)305-326(1970)

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