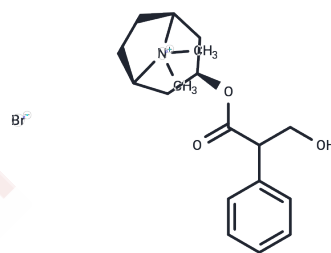


Atropine methyl bromide

Chemical Properties

CAS No. :	2870-71-5
Formula:	C ₁₈ H ₂₆ BrNO ₃
Molecular Weight:	384.308
Storage:	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 methyl bromide (Methylatropine bromide) is a quaternary ammonium salt of atropine, characterized as a muscarinic receptor (mAChR) antagonist. It functions as a mydriatic to dilate the pupil during ophthalmic examination. Compared to atropine, it demonstrates reduced penetration into the central nervous system[1][2]. Its high polarity makes it particularly effective in relieving pyloric spasm in infants.
Targets(IC50)	AChR

Solubility Information

Solubility	DMSO: 149 mg/mL (387.71 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 4 mg/mL (10.41 mM), Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.6021 mL	13.0103 mL	26.0207 mL
5 mM	0.5204 mL	2.6021 mL	5.2041 mL
10 mM	0.2602 mL	1.301 mL	2.6021 mL
50 mM	0.052 mL	0.2602 mL	0.5204 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

Methylatropine.

Nurminen ML, et al. Central inhibition of nitric oxide synthesis increases blood pressure and heart rate in anesthetized rats. *Methods Find Exp Clin Pharmacol*. 1997 Jan-Feb;19(1):35-41.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481