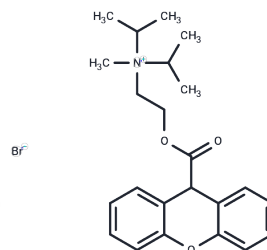


Propantheline bromide

Chemical Properties

CAS No. :	50-34-0
Formula:	C ₂₃ H ₃₀ BrNO ₃
Molecular Weight:	448.4
Appearance:	no data available
Storage:	store under nitrogen
	Powder: -20°C for 3 years In solvent: -80°C for 1 year



Biological Description

Description	Propantheline bromide (Pro-Banthine) competitively antagonizes acetylcholine activity mediated by muscarinic receptors at neuroeffector sites on smooth muscle and exocrine gland cells. Propantheline Bromide is the bromide salt form of propantheline, a quaternary ammonium compound structurally related to belladonna alkaloids. An aspartic acid residue present in the N-terminal portion of the third transmembrane helix of the muscarinic receptor is believed to form an ionic bond with the tertiary or quaternary nitrogen of the antagonist. Antagonism leads to a reduction of exocrine glands secretions and to relax the bronchial muscle and reduce tone and motility of intestinal smooth muscle.
Targets(IC50)	AChR

Solubility Information

Solubility	H ₂ O: 50 mg/ml (111.51 mM), Sonication is recommended. DMSO: 60 mg/mL (133.81 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.2302 mL	11.1508 mL	22.3015 mL
5 mM	0.446 mL	2.2302 mL	4.4603 mL
10 mM	0.223 mL	1.1151 mL	2.2302 mL
50 mM	0.0446 mL	0.223 mL	0.446 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.

Reference

Saitoh H, et al. J Pharmacobiodyn. 1986 Dec; 9(12):1008-14.

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