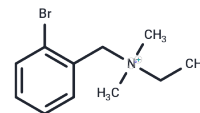
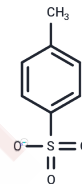


Bretylium tosylate

Chemical Properties

CAS No. :	61-75-6
Formula:	C ₁₈ H ₂₄ BrNO ₃ S
Molecular Weight:	414.36
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	Bretylium tosylate is an inhibitor of the presynaptic release of vasoconstrictor neurotransmitters, a available antiarrhythmic drug for ventricular arrhythmias.
Targets(IC50)	Others,Adrenergic Receptor
In vivo	Nine patients who had recurrent ventricular fibrillation following acute myocardial infarction or angina were given bretylium tosylate in a dose of 5 mg./kg. intramuscularly every eight hours after other measures had proved ineffective. Provided the patients were not in shock or in heart failure, there was a considerable reduction in the episodes of ventricular fibrillation.A second group of nine patients who developed recurrent ventricular fibrillation following open heart surgery were given bretylium intravenously, which controlled the arrhythmia in every instance.Bretylium did not completely abolish ventricular premature beats but the latter did not initiate ventricular fibrillation even when they occurred on the T wave[1].

Solubility Information

Solubility	DMSO: 30 mg/mL (72.4 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: 2 mg/mL (4.83 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	2.4134 mL	12.0668 mL	24.1336 mL
5 mM	0.4827 mL	2.4134 mL	4.8267 mL
10 mM	0.2413 mL	1.2067 mL	2.4134 mL
50 mM	0.0483 mL	0.2413 mL	0.4827 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

Dhurandhar R W , Teasdale S J , Mahon W A . Bretylium Tosylate in the Management of Refractory Ventricular Fibrillation[J]. Canadian Medical Association journal, 1971, 105(2):161-5 passim.

Heissenbuttel R H , Bigger J T . New Drugs: Bretylium Tosylate: A Newly Available Antiarrhythmic Drug for Ventricular Arrhythmias[J]. Annals of internal medicine, 1979, 91(2):229-238.

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