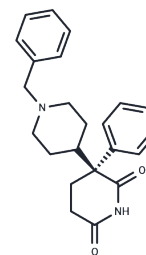


Dexetimide

Chemical Properties

CAS No. :	21888-98-2
Formula:	C ₂₃ H ₂₆ N ₂ O ₂
Molecular Weight:	362.46
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	Dexetimide ((+)-Benzetimide) is a high-affinity antagonist of the muscarinic receptor. It is a persistent anticholinergic agent and can be used to treat neuroleptic-induced parkinsonism.
Targets(IC50)	Others,AChR

Solubility Information

Solubility	DMSO: 100 mg/mL (275.89 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: 5 mg/mL (13.79 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	2.7589 mL	13.7946 mL	27.5893 mL
5 mM	0.5518 mL	2.7589 mL	5.5179 mL
10 mM	0.2759 mL	1.3795 mL	2.7589 mL
50 mM	0.0552 mL	0.2759 mL	0.5518 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

Speck AL, et al. The absolute configuration and crystal structure of the anticholinergic drug dexbenzetimide. Nature. 1971 Aug 20;232(5312):575-6.

Müller-Gärtner HW, et al. Imaging muscarinic cholinergic receptors in human brain in vivo with Spect, [123I]4-iododexetimide, and [123I]4-iodolevetimide. J Cereb Blood Flow Metab. 1992 Jul;12(4):562-70.

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