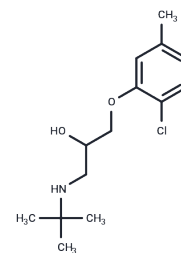


Bupranolol

Chemical Properties

CAS No. :	14556-46-8
Formula:	C ₁₄ H ₂₂ ClNO ₂
Molecular Weight:	271.78
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	Bupranolol is an antagonist of β_2 -adrenergic receptor and has been used for angina pectoris, hypertension, glaucoma, cardiac arrhythmia and as an antithrombotic.
Targets(IC50)	Adrenergic Receptor

Solubility Information

Solubility	DMSO: 25 mg/mL (91.99 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 (7.36 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	3.6794 mL	18.3972 mL	36.7945 mL
5 mM	0.7359 mL	3.6794 mL	7.3589 mL
10 mM	0.3679 mL	1.8397 mL	3.6794 mL
50 mM	0.0736 mL	0.3679 mL	0.7359 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

Malinowska B , Kie?-Kononowicz K , Flau K , et al. Atypical cardiostimulant β -adrenoceptor in the rat heart: stereoselective antagonism by bupranolol but lack of effect by some bupranolol analogues[J]. 2003, 139(8):1548-1554.

Piltinen, Marjo, H,et al. Differences in the Antinociceptive Effects and Binding Properties of Propranolol and Bupranolol Enantiomers[J]. Journal of Pain Official Journal of the American Pain Society, 2015.

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