

Betaxolol

Chemical Properties

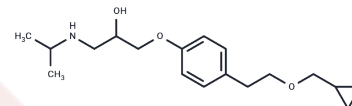
CAS No. : 63659-18-7

Formula: C₁₈H₂₉NO₃

Molecular Weight: 307.43

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	Betaxolol (Kerlone) is a selective beta1 adrenergic receptor blocker used in the treatment of hypertension and glaucoma.
Targets(IC50)	Adrenergic Receptor

Solubility Information

Solubility	H ₂ O: 57 mg/mL (185.41 mM),Sonication is recommended. Ethanol: < 1 mg/mL (insoluble or slightly soluble), DMSO: 230 mg/mL (748.14 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 (6.51 mM),Sonication is recommended. 10% DMSO+90% Saline: 10 mg/mL (32.53 mM),Suspension. <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	3.2528 mL	16.2639 mL	32.5277 mL
5 mM	0.6506 mL	3.2528 mL	6.5055 mL
10 mM	0.3253 mL	1.6264 mL	3.2528 mL
50 mM	0.0651 mL	0.3253 mL	0.6506 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

Onischenko AL, et al. Vestn Oftalmol. 2015 Mar-Apr;131(2):76-80. Russian.

Sun J, Ren S, Yang Y, et al. Betaxolol as a Potent Inhibitor of NDM-1-Positive E. coli That Synergistically Enhances the Anti-Inflammatory Effect in Combination with Meropenem. International Journal of Molecular Sciences. 2023, 24 (17): 13399.

Bushee JL, Dunne CE, Argikar UA. Xenobiotica. 2015 May;45(5):396-405.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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