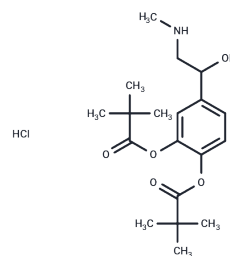


Dipivefrin hydrochloride

Chemical Properties

CAS No. :	64019-93-8
Formula:	C ₁₉ H ₂₇ N ₀₅ ·HCl
Molecular Weight:	387.9
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	Dipivefrin hydrochloride (Dipivefrin HCl) that is available as an ophthalmic solution is a prodrug of adrenaline, which is used to treat glaucoma.
Targets(IC50)	Endogenous Metabolite, Adrenergic Receptor, AChR

Solubility Information

Solubility	DMSO: 245 mg/mL (631.61 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Saline: 10 mg/mL (25.78 mM), Solution. 10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2 mg/mL (5.16 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	2.578 mL	12.8899 mL	25.7798 mL
5 mM	0.5156 mL	2.578 mL	5.156 mL
10 mM	0.2578 mL	1.289 mL	2.578 mL
50 mM	0.0516 mL	0.2578 mL	0.5156 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

Nakamura M, et al. Ophthalmic Res. 1993;25(1):46-51.

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Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481