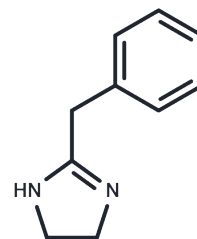


Tolazoline hydrochloride

Chemical Properties

CAS No. :	59-97-2
Formula:	C ₁₀ H ₁₃ ClN ₂
Molecular Weight:	196.68
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.

HCl



Biological Description

Description	Tolazoline hydrochloride (NSC35110 (hydrochloride)) is a non-selective competitive α -adrenergic receptor antagonist used in treatment of persistent pulmonary hypertension of the newborn.
Targets(IC50)	Adrenergic Receptor
In vivo	In cases of persistent pulmonary hypertension of the newborn (PPHN), Tolazoline acts as a pulmonary vasodilator, effectively reducing pulmonary vascular resistance (PVR) and pulmonary arterial pressure. Additionally, within the human radial artery, Tolazoline blocks α -adrenergic activity, significantly counteracting vascular spasms.

Solubility Information

Solubility	H ₂ O: 36 mg/mL (183.04 mM),Sonication is recommended. DMSO: 55 mg/mL (279.64 mM),Sonication is recommended. Ethanol: 37 mg/mL (188.12 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 (10.17 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	5.0844 mL	25.422 mL	50.844 mL
5 mM	1.0169 mL	5.0844 mL	10.1688 mL
10 mM	0.5084 mL	2.5422 mL	5.0844 mL
50 mM	0.1017 mL	0.5084 mL	1.0169 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

Lei L, et al. J Cardiovasc Pharmacol, 1998, 31(5), 721-733.

Teskin O, et al. Ann Thorac Surg, 2006, 81(1), 125-131.

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