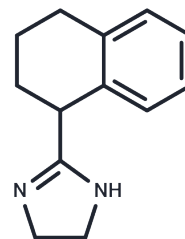


Tetrahydrozoline

Chemical Properties

CAS No. :	84-22-0
Formula:	C ₁₃ H ₁₆ N ₂
Molecular Weight:	200.28
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	Tetrahydrozoline (Tetryzoline), an alpha agonist, have an effect on the constriction of conjunctival blood vessels. This contributes to relieve the redness of the eye resulted from minor ocular irritants.
Targets(IC50)	Adrenergic Receptor

Solubility Information

Solubility	DMSO: 45 mg/mL (224.69 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 (9.99 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	4.993 mL	24.965 mL	49.9301 mL
5 mM	0.9986 mL	4.993 mL	9.986 mL
10 mM	0.4993 mL	2.4965 mL	4.993 mL
50 mM	0.0999 mL	0.4993 mL	0.9986 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

Dahlström M, et al. J Exp Zool A Comp Exp Biol. 2005 Jul 1;303(7):551-62.

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