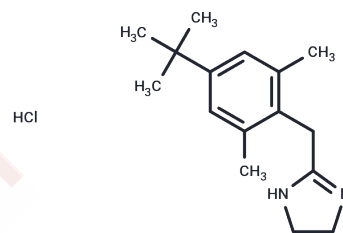


Xylometazoline hydrochloride

Chemical Properties

CAS No. :	1218-35-5
Formula:	C ₁₆ H ₂₄ N ₂ ·HCl
Molecular Weight:	280.84
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	Xylometazoline hydrochloride (Xylometazoline HCl) is an α -adrenoceptor agonist usually used as nasal decongestant.
Targets(IC50)	Adrenergic Receptor
In vitro	Xylometazoline is an α -adrenoceptor agonist commonly used as nasal decongestant, exhibits highest potency at α 2B-adrenoceptor subtype with EC ₅₀ of 99 μ M. Xylometazoline binds at adrenoceptor subtype α 1A, α 1B, α 1D, α 2A, α 2B, α 2C with IC ₅₀ of 0.08, 0.56, 0.45, 0.98, 1.8, 0.22 μ M, respectively. [1]

Solubility Information

Solubility	DMSO: 16 mg/mL (56.97 mM), Sonication is recommended. Ethanol: 52 mg/mL (185.16 mM), Sonication is recommended. H ₂ O: 51 mg/mL (181.6 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 (7.12 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	3.5607 mL	17.8037 mL	35.6075 mL
5 mM	0.7121 mL	3.5607 mL	7.1215 mL
10 mM	0.3561 mL	1.7804 mL	3.5607 mL
50 mM	0.0712 mL	0.3561 mL	0.7121 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

Haenisch B, Fundam Clin Pharmacol, 2010, 24(6), 729-739.

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