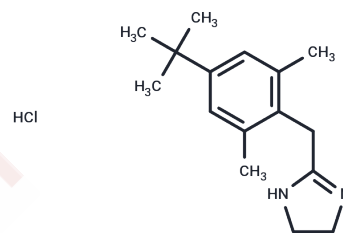


Xylometazoline hydrochloride

Chemical Properties

CAS No. :	1218-35-5
Formula:	C ₁₆ H ₂₄ N ₂ ·HCl
Molecular Weight:	280.84
Appearance:	no data available
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year



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 EC50 of 99 μ M. Xylometazoline binds at adrenoceptor subtype α 1A, α 1B, α 1D, α 2A, α 2B, α 2C with IC50 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. H2O: 51 mg/mL (181.6 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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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.

Reference

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

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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