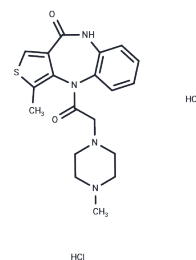


Telenzepine dihydrochloride

Chemical Properties

CAS No. :	147416-96-4
Formula:	C ₁₉ H ₂₄ Cl ₂ N ₄ O ₂ S
Molecular Weight:	406.93
Storage:	Keep away from moisture Powder: -20°C for 3 years In solvent: -80°C for 1 year <i>Actual storage temperature shall be subject to the COA.</i>



Biological Description

Description	Telenzepine dihydrochloride is a highly selective M1 muscarinic receptor antagonist. It inhibits gastric acid secretion and is used for ulcer and cholinergic neuropharmacology research.
Targets(IC50)	AChR
In vitro	Telenzepine dihydrochloride (100 nM) blocks muscarine-induced responses and inhibits M1 receptor-mediated depolarization (IC ₅₀ = 8.5 nM) [2][3].
In vivo	Telenzepine dihydrochloride potently inhibits gastric acid secretion in rats; oral 2.7 umol/kg shows long-lasting anti-ulcer effects [1].

Solubility Information

Solubility	H ₂ O: 50 mg/mL (122.87 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	2.4574 mL	12.2871 mL	24.5743 mL
5 mM	0.4915 mL	2.4574 mL	4.9149 mL
10 mM	0.2457 mL	1.2287 mL	2.4574 mL
50 mM	0.0491 mL	0.2457 mL	0.4915 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

Artigou JY, et al. [Evaluation of a new cardiotoxic agent on human isolated atrium]. *Ann Cardiol Angeiol (Paris)*. 1993 Feb;42(2):79-82.

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Rybak JM, Marx K, Martin CA. Early experience with tedizolid: clinical efficacy, pharmacodynamics, and resistance. *Pharmacotherapy*. 2014 Nov;34(11):1198-208.

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