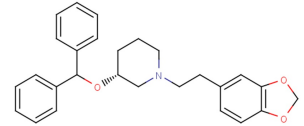


Data Sheet (Cat.No.T17283)

Zamifenacin

Chemical Properties

CAS No.:	127308-82-1
Formula:	C ₂₇ H ₂₉ NO ₃
Molecular Weight:	415.52
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).



Biological Description

Description	Zamifenacin obviously decreases colonic motility in irritable bowel syndrome. Zamifenacin is an effective gut-selective muscarinic M3 receptor antagonist.
Targets(IC ₅₀)	Muscarinic M3 receptor: None
In vivo	Zamifenacin shows moderate oral bioavailability (mouse 26%, rat 64%, dog 100%) and C _{max} (mouse 92, rat 905, dog 416 ng/mL) following oral administration (mouse 13.2, rat 20 and, dog 5 mg/kg). Zamifenacin displays terminal elimination half-lives (mouse 2.1, rat 6.0 and, dog 1.1 h) due to high plasma clearance (68, 35, and 39 mL/min/kg respectively combined with large volumes of distribution (12.5, 19.0, and 3.5 L/kg respectively) following intravenous administration (mouse 5.3, rat 5.0 and, dog 1.0 mg/kg) [2].

Solubility Information

Solubility	< 1 mg/ml refers to the product slightly soluble or insoluble
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.407 mL	12.033 mL	24.066 mL
5 mM	0.481 mL	2.407 mL	4.813 mL
10 mM	0.241 mL	1.203 mL	2.407 mL
50 mM	0.048 mL	0.241 mL	0.481 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

Reference

- Houghton LA, et al. Zamifenacin (UK-76, 654) a potent gut M3 selective muscarinic antagonist, reduces colonic motor activity in patients with irritable bowel syndrome. *Aliment Pharmacol Ther.* 1997 Jun;11(3):561-8.
- Beaumont KC, et al. Pharmacokinetics and metabolism of Zamifenacin in mouse, rat, dog and man. *Xenobiotica.* 1996 Apr;26(4):459-71.

Inhibitors · Natural Compounds · Compound Libraries

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