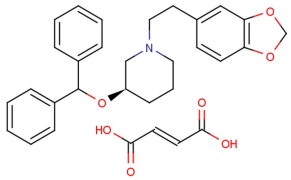
Data Sheet (Cat.No.T13385)

TargetMol
A DRUG SCREENING EXPERT

Zamifenacin fumarate

Chemical Properties



CAS No.:	127308-98-9
Formula:	C31H33NO7
Molecular Weight:	531.6
Appearance:	N/A
Storage:	0-4℃ for short term (days to weeks), or -20℃ for long term (months).

Biological Description

Description	Zamifenacin fumarate is a potent antagonist of gut-selective muscarinic M3 receptor.
Targets(IC_{50})	Muscarinic M3 receptor: None
In vivo	Zamifenacin exhibits 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

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.881 mL	9.406 mL	18.811 mL
5 mM	0.376 mL	1.881 mL	3.762 mL
10 mM	0.188 mL	0.941 mL	1.881 mL
50 mM	0.038 mL	0.188 mL	0.376 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 ℃ for 6 months; - 20 ℃ for 1 month. Please use it as soon as possible.

Reference

1. 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.

2. Beaumont KC, et al. Pharmacokinetics and metabolism of Zamifenacin in mouse, rat, dog and man. Xenobiotica. 1996 Apr;26(4):459-71.

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