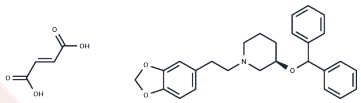
Data Sheet (Cat.No.T13385)

TargetMol

Zamifenacin fumarate

Chemical Properties



CAS No. : 127308-98-9

Formula: C31H33NO7

Molecular Weight: 531.6

Appearance: no data available

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Biological Description

Description	Zamifenacin fumarate (UK-76654 fumarate) is a potent, gut-selective antagonist of the muscarinic M3 receptor.
Targets(IC50)	AChR
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	H2O: 1 mg/mL (1.88 mM),Sonication and heating to 60°C are recommended. DMSO: 55 mg/ml (103.46 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.8811 mL	9.4056 mL	18.8111 mL
5 mM	0.3762 mL	1.8811 mL	3.7622 mL
10 mM	0.1881 mL	0.9406 mL	1.8811 mL
50 mM	0.0376 mL	0.1881 mL	0.3762 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

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.

Tel:781-999-4286 E_mail:info@targetmol.com Address:36 Washington Street,Wellesley Hills,MA 02481