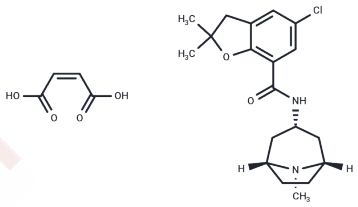
Data Sheet (Cat.No.T17285)

TargetMol

Zatosetron maleate

Chemical Properties



CAS No. : 123482-23-5

Formula: C23H29ClN2O6

Molecular Weight: 464.94

Storage: Store at low temperature
Powder: -20°C for 3 years | In solvent: -80°C for 1 year
Actual storage temperature shall be subject to the COA.

Biological Description

Description	Zatosetron maleate(LY 277359 maleate) is a potent and selective serotonin 5HT3 receptor antagonist for the study of acute migraine.
Targets(IC50)	5-HT Receptor
In vivo	Acute administration of Zatosetron maleate at doses of 0.1 mg/kg (n=21) and 0.3 mg/kg (n=5) significantly reduces the activity of A10 dopamine cells in male rats, an effect not observed with doses of 0.01, 0.05, 1.0, or 10 mg/kg or with saline administration. The reduction in active A10 dopamine cells begins 60 minutes post-intraperitoneal (i.p.) administration at 0.1 mg/kg, with significant decreases observed at 60-90 minutes (0.65 ±0.11, P=0.03, n=5), deepening at 90-120 minutes (0.53±0.08, P=0.004, n=5), and stabilizing from 2 to 3 hours (0.50±0.05, P=0.0004, n=5). Single-unit recordings reveal that intravenous (i.v.) administration of Zatosetron maleate inhibits A10 dopamine cell activity with an ED50 of 0.12 mg/kg (n=8). Chronic administration at 0.1 mg/kg (n=16) also leads to a significant decrease in active A10 dopamine cells, with no significant effect at doses of 0.01, 1.0, or 10 mg/kg or with saline (n=4, 8, 7, and 5, respectively).

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.1508 mL	10.7541 mL	21.5082 mL
5 mM	0.4302 mL	2.1508 mL	4.3016 mL
10 mM	0.2151 mL	1.0754 mL	2.1508 mL
50 mM	0.043 mL	0.2151 mL	0.4302 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

Rasmussen K, et al. The 5-HT3 receptor antagonist zatosetron decreases the number of spontaneously active A10 dopamine neurons. Eur J Pharmacol. 1991 Nov 19; 205 (1):113-6.
Robertson DW, et al. Zatosetron, a potent, selective, and long-acting 5HT3 receptor antagonist: synthesis and structure-activity relationships. J Med Chem. 1992 Jan 24;35(2):310-9.

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