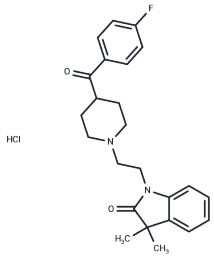
Data Sheet (Cat.No.T2688)

LY310762

Chemical Properties



CAS No. : 192927-92-7

Formula: C24H27FN2O2·HCl

Molecular Weight: 430.94

Appearance: no data available

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

Biological Description

Description	LY310762 is a 5-HT1D receptor antagonist with Ki of 249 nM.
Targets(IC50)	5-HT Receptor
In vitro	Following treatment with LY310762, the levels of 5-HT in animals treated with fluoxetine increased from 312±43% to a peak of 683%. In the control group, the 5-HT levels remained constant at 250%. Compared to animals that received a control vehicle injection, systemic administration of 10 mg/kg i.p. LY310762 significantly enhanced the response of 5-HT to 20 mg/kg i.p. fluoxetine. When administered alone, LY310762 notably raised the baseline levels of 5-HT above the vehicle control, achieving a maximum value of 258% compared to the pre-injection control group.
In vivo	LY310762 enhances potassium-induced [3H] 5-HT efflux from guinea pig cortical slices, with an EC50 of 30 nM. The maximal enhancement of potassium-induced [3H]5-HT efflux by LY310762 is approximately 40%. LY310762 exhibits a higher affinity for the guinea pig 5-HT1D receptor than for the 5-HT1B receptor.

Solubility Information

Solubility	DMSO: 43.1 mg/mL (100.01 mM),Sonication is recommended. H2O: 4.3 mg/mL (9.98 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.3205 mL	11.6025 mL	23.2051 mL
5 mM	0.4641 mL	2.3205 mL	4.641 mL
10 mM	0.2321 mL	1.1603 mL	2.3205 mL
50 mM	0.0464 mL	0.2321 mL	0.4641 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

Pullar IA, et al. Eur J Pharmacol, 2004, 493(1-3), 85-93.
Choi IS, et al. Br J Pharmacol, 2012,167(2), 356-367.