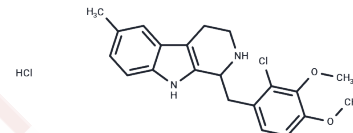


LY266097 hydrochloride

Chemical Properties

CAS No. :	172895-39-5
Formula:	C ₂₁ H ₂₄ Cl ₂ N ₂ O ₂
Molecular Weight:	407.33
Storage:	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	LY266097 hydrochloride (LY 266097 hydrochloride) is an antagonist of 5-HT ₂ with pK _i s of 7.7, 9.8, and 7.6 for human 5-HT _{2A} , 5-HT _{2B} , and 5-HT _{2C} and can be used in studies about depression.
Targets(IC ₅₀)	5-HT Receptor
In vivo	In vivo electrophysiological recordings of ventral tegmental area (VTA) dopamine (DA) neurons, dorsal raphe nucleus (DRN) 5-HT neurons and pyramidal neurons in the medial prefrontal cortex (mPFC), and the hippocampus were conducted in anaesthetized Sprague-Dawley rats after the administration of 5-HT _{2B} receptor ligands alone or in combination with the SSRI escitalopram. An escitalopram-induced decrease in DA, but not 5-HT firing activity, was rescued by 2-day co-administration of the selective 5-HT _{2B} receptor antagonist LY266097. In the mPFC, 14-day escitalopram administration alone had no effect on pyramidal neuron firing and burst activity, whereas, aripiprazole administered alone or in combination with escitalopram for 14 days increased pyramidal neuron firing and burst activity. Likewise, the administration of LY266097 alone or its addition on the last 3 days of a 14-day escitalopram regimen increased pyramidal neuron firing and burst activity[1].

Solubility Information

Solubility	DMSO: 56.2 mg/mL (137.97 mM), Sonication and heating to 60°C are recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
------------	---

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.455 mL	12.2751 mL	24.5501 mL
5 mM	0.491 mL	2.455 mL	4.910 mL
10 mM	0.2455 mL	1.2275 mL	2.455 mL
50 mM	0.0491 mL	0.2455 mL	0.491 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

Rami Hamati, et al. Serotonin-2B receptor antagonism increases the activity of dopamine and glutamate neurons in the presence of selective serotonin reuptake inhibition. *Neuropsychopharmacology*. 2020 Nov;45(12):2098-2105.

Luc Maroteaux, et al. New therapeutic opportunities for 5-HT₂ receptor ligands. *Pharmacol Ther*. 2017 Feb;170:14-36.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481