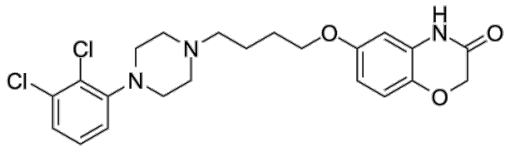
Product Data Sheet

Product Name: Brilaroxazine
Cat. No.: GC64676

Chemical Properties

Cas. No.	1239729-06-6		
Formula	$C_{22}H_{25}Cl_2N_3O_3$	M.Wt	450.36
Solubility	DMSO : 100 mg/mL (222.04 mM; Need ultrasonic)	Storage	4°C, protect from light
General tips	For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while.Stock solution can be stored below -20°C for several months.		
Shipping Condition	Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.		
Structure			



Background

Brilaroxazine (RP5603) is a potent and orally active multimodal dopamine (DA)/serotonin (5-HT) modulator. Brilaroxazine is a partial agonist of dopamine (DA) D2, D3, and D4 receptors, 5-HT1A (Ki=1.5 nM) and 5-HT2A (Ki=2.5 nM), and has antagonist activity at 5-HT2B (Ki=0.19 nM), and 5-HT7 (Ki=2.7 nM) receptors[1]. Brilaroxazine is an atypical antipsychotic agent, and has the potential to improve cognitive impairments in neuropsychiatric and neurological diseases in vivo[2].

Caution: Product has not been fully validated for medical applications. For research use only.
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Brilaroxazine (oral gavage; 10 mg/kg; twice daily; 28 days) limits the functional and structural effects of pulmonary arterial hypertension (PAH), with significant improvements in pulmonary hemodynamics, right ventricular (RV) hypertrophy, SO2, and pulmonary blood vessel structural changes[1].

[1]. Reviva Pharmaceuticals Reports RP5063 Positive Efficacy Results for Memory Deficits
[2]. Bhat L, et al. Evaluation of the effects of RP5063, a novel, multimodal, serotonin receptor modulator, as single-agent therapy and co-administrated with sildenafil, bosentan, and treprostinil in a monocrotaline-induced pulmonary arterial hypertension rat model.Eur J Pharmacol. 2018 May 15;827:159-166.
[3]. L. Bhat,et al. Rp5063 Prevents Monocrotaline Induced Pulmonary Arterial Hypertension In Rats.

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