

ORM-10921

Chemical Properties

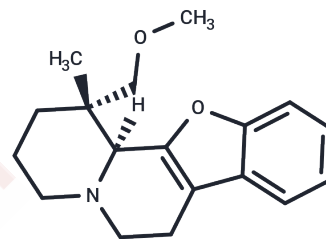
CAS No. : 610782-82-6

Formula: C₁₈H₂₃NO₂

Molecular Weight: 285.38

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	ORM-10921 is an α_2C -adrenoceptor antagonist that has shown antipsychotic and antidepressant activity in animal studies.
Targets(IC50)	Adrenergic Receptor
In vivo	The role of the α_2C -AR in modulating two key depression-related behaviors in the Flinders Sensitive Line (FSL) rat was studied using a dose-response analysis following subcutaneous administration with the selective α_2C -AR antagonist ORM-10921 (0.03, 0.3 mg/kg), the nonselective α_2 -AR antagonist idazoxan (3mg/kg), or vehicle once daily for 14 days. Behavior in the novel object recognition test forced swim test (FST), and locomotor activity test was assessed. ORM-10921 at both doses but not idazoxan significantly reversed immobility in the FST as well as attenuated cognitive deficits in FSL animals.[3]

Solubility Information

Solubility	DMSO: 45 mg/mL (157.68 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.5041 mL	17.5205 mL	35.041 mL
5 mM	0.7008 mL	3.5041 mL	7.0082 mL
10 mM	0.3504 mL	1.752 mL	3.5041 mL
50 mM	0.0701 mL	0.3504 mL	0.7008 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

- Uys M, et al. The α 2C-adrenoceptor antagonist, ORM-10921, has antipsychotic-like effects in social isolation reared rats and bolsters the response to haloperidol. *Prog Neuropsychopharmacol Biol Psychiatry*. 2016 Nov 3;71:108-16.
- Sallinen J, et al. Pharmacological characterisation of a structurally novel α 2C-adrenoceptor antagonist ORM-10921 and its effects in neuropsychiatric models. *Basic Clin Pharmacol Toxicol*. 2013 Oct;113(4):239-49.
- Uys MM, et al. The α 2C-adrenoceptor antagonist, ORM-10921, exerts antidepressant-like effects in the Flinders Sensitive Line rat. *Behav Pharmacol*. 2017 Feb;28(1):9-18.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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