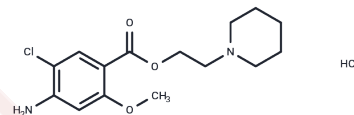


ML 10302 hydrochloride

Chemical Properties

CAS No. :	186826-17-5
Formula:	C ₁₅ H ₂₂ Cl ₂ N ₂ O ₃
Molecular Weight:	349.25
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	ML 10302 hydrochloride is a specific agonist 5-HT ₄ and binds 5-HT receptors with K _i s of 1.07 nM and 782 nM for 5-HT ₄ and 5-HT ₃ .
Targets(IC ₅₀)	5-HT Receptor
In vivo	In male C57BL/6j wild-type mice, subcutaneous injection of ML 10302 hydrochloride (5, 10 and 20mg/kg) increases the production of soluble form of amyloid precursor protein [3].

Solubility Information

Solubility	Ethanol: < 6.99 mg/mL, Sonication is recommended. DMSO: 12 mg/mL (34.36 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	2.8633 mL	14.3164 mL	28.6328 mL
5 mM	0.5727 mL	2.8633 mL	5.7266 mL
10 mM	0.2863 mL	1.4316 mL	2.8633 mL
50 mM	0.0573 mL	0.2863 mL	0.5727 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

Langlois, M., et al. Design of a potent 5-HT₄ receptor agonist with nanomolar affinity. *Bioorganic & Medicinal Chemistry Letters*. 1994. 4(12), 1433-1436.

D Yang, et al. New esters of 4-amino-5-chloro-2-methoxybenzoic acid as potent agonists and antagonists for 5-HT₄ receptors. *J Med Chem*. 1997 Feb 14;40(4):608-21.

M Cachard-Chastel, et al. 5-HT₄ receptor agonists increase sAPP α levels in the cortex and hippocampus of male C57BL/6j mice. *Br J Pharmacol*. 2007 Apr; 150(7): 883-892.

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