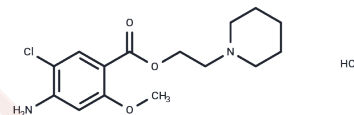


## ML 10302 hydrochloride

## Chemical Properties

CAS No. :	186826-17-5
Formula:	C <sub>15</sub> H <sub>22</sub> Cl <sub>2</sub> N <sub>2</sub> O <sub>3</sub>
Molecular Weight:	349.25
Appearance:	Solid
Storage:	Powder: -20°C for 3 years   In solvent: -80°C for 1 year



## Biological Description

Description	ML 10302 hydrochloride is a specific agonist 5-HT <sub>4</sub> and binds 5-HT receptors with K <sub>i</sub> s of 1.07 nM and 782 nM for 5-HT <sub>4</sub> and 5-HT <sub>3</sub> .
Targets(IC <sub>50</sub> )	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.

## Reference

- Langlois, M., et al. Design of a potent 5-HT<sub>4</sub> 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-HT<sub>4</sub> receptors. *J Med Chem*. 1997 Feb 14;40(4):608-21.
- M Cachard-Chastel, et al. 5-HT<sub>4</sub> receptor agonists increase sAPP $\alpha$  levels in the cortex and hippocampus of male C57BL/6j mice. *Br J Pharmacol*. 2007 Apr; 150(7): 883-892.

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