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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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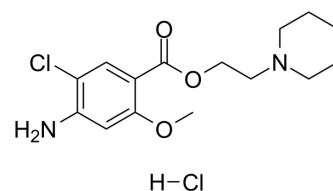
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ML 10302 hydrochloride

Cat. No.:	HY-14442
CAS No.:	186826-17-5
Molecular Formula:	C ₁₅ H ₂₂ Cl ₂ N ₂ O ₃
Molecular Weight:	349.25
Target:	5-HT Receptor
Pathway:	GPCR/G Protein; Neuronal Signaling
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	ML 10302 hydrochloride is a potent and selective 5-HT ₄ receptor agonist, with an EC ₅₀ of 4 nM. ML 10302 hydrochloride displays more than 680-fold selectivity over 5-HT ₃ receptor in binding assay ^{[1][2]} .		
IC₅₀ & Target	5-HT ₄ Receptor 4 nM (EC ₅₀)	5-HT ₄ Receptor 1.07 nM (K _i)	5-HT ₃ Receptor 782 nM (K _i)
In Vitro	ML 10302 hydrochloride shows K _i s of 1.07 nM and 782 nM for 5-HT ₄ receptor and 5-HT ₃ receptor, respectively, in binding assay ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.		
In Vivo	ML 10302 hydrochloride (20 mg/kg; s.c.) induces the soluble form of amyloid precursor protein (sAPP _α) production in the cortex of mice ^[3] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.		
	Animal Model:	8-weeks old adult male C57BL/6j wild-type mice (23-27 g) ^[3]	
	Dosage:	5 mg/kg, 10 mg/kg, 20 mg/kg	
	Administration:	Subcutaneous injection	
	Result:	Significantly increased sAPP _α level in the cortex.	

REFERENCES

- [1]. Langlois, M., et al. Design of a potent 5-HT₄ receptor agonist with nanomolar affinity. *Bioorganic & Medicinal Chemistry Letters*. 1994. 4(12), 1433-1436.
- [2]. 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.
- [3]. 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.

Caution: Product has not been fully validated for medical applications. For research use only.

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