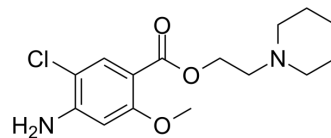


ML 10302

Cat. No.:	HY-14441
CAS No.:	148868-55-7
Molecular Formula:	C ₁₅ H ₂₁ ClN ₂ O ₃
Molecular Weight:	312.79
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 is a potent agonist 5-HT₄ receptor with K_i of 1.07 nM. 5-Hydroxytryptamine (5-HT₄) receptor agonists stimulate gut motility through cholinergic pathways. ML10302 induces significant prokinesia both in the small bowel and colon through activation of cholinergic pathways. ML 10302 also has the potential for the research of neurology diseases^[1].

REFERENCES

- [1]. Cachard-Chastel M, et al. 5-HT₄ receptor agonists increase sAPP α levels in the cortex and hippocampus of male C57BL/6j mice. *Br J Pharmacol.* 2007;150(7):883-892.
- [2]. Yang D, 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;40(4):608-621.
- [3]. De Ponti F, et al. Intestinal motor stimulation by the 5-HT₄ receptor agonist ML10302: differential involvement of tachykininergic pathways in the canine small bowel and colon. *Neurogastroenterol Motil.* 2001;13(6):543-553.

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

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