



SZABO SCANDIC

Part of Europa Biosite

Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!
See the following pages for more information!



Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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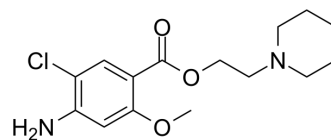
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ML 10302

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:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 125 mg/mL (399.63 mM; Need ultrasonic)

Concentration	Solvent	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	3.1970 mL	15.9852 mL	31.9703 mL
	5 mM	0.6394 mL	3.1970 mL	6.3941 mL
	10 mM	0.3197 mL	1.5985 mL	3.1970 mL

Please refer to the solubility information to select the appropriate solvent.

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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