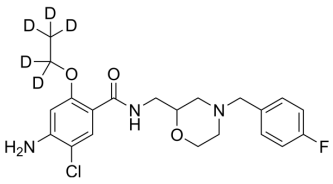
Mosapride-d_5

Cat. No.:	HY-B0189S1
CAS No.:	1246820-66-5
Molecular Formula:	$C_{21}H_{20}D_5ClFN_3O_3$
Molecular Weight:	426.92
Target:	5-HT Receptor; Isotope-Labeled Compounds
Pathway:	GPCR/G Protein; Neuronal Signaling; Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Mosapride-d_5 is the deuterium labeled Mosapride. Mosapride is a gastroprokinetic agent that acts as a selective 5HT4 agonist.
In Vitro	Stable heavy isotopes of hydrogen, carbon, and other elements have been incorporated into drug molecules, largely as tracers for quantitation during the drug development process. Deuteration has gained attention because of its potential to affect the pharmacokinetic and metabolic profiles of drugs[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. Ann Pharmacother. 2019;53(2):211-216.

[2]. Tack J, et al. Systematic review: cardiovascular safety profile of 5-HT(4) agonists developed for gastrointestinal disorders. Aliment Pharmacol Ther. 2012 Apr;35(7):745-67.

[3]. Curran MP, et al. Mosapride in gastrointestinal disorders. Drugs. 2008;68(7):981-91.

[4]. Odaka T, et al. Serotonin 5- HT4 receptor agonist (mosapride citrate). Nihon Rinsho. 2006 Aug;64(8):1491-4.

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