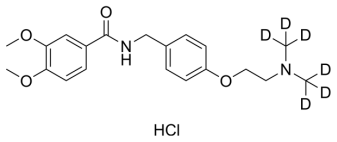
Itopride-d_6 hydrochloride

Cat. No.:	HY-B0732S
CAS No.:	1346601-02-2
Molecular Formula:	$C_{20}H_{21}D_6ClN_2O_4$
Molecular Weight:	400.93
Target:	Dopamine Receptor; Cholinesterase (ChE); 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	Itopride-d_6 (hydrochloride) is deuterium labeled Itopride (hydrochloride). Itopride hydrochloride (HSR803), a gastroprokinetic Benzamide (HY-Z0283) derivative, is an inhibitor of acetylcholinesterase (AChE) and dopamine D2 receptor[1][2].
IC_{50} & Target	D_2 Receptor
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]. Hyun Chul Lim, et al. Effect of Itopride Hydrochloride on the Ileal and Colonic Motility in Guinea Pig In Vitro. Effect of Itopride Hydrochloride on the Ileal and Colonic Motility in Guinea Pig In Vitro. Yonsei Med J. 2008 Jun 30;49(3):472-8.

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