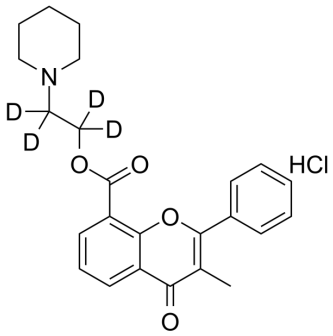
Flavoxate-d4 hydrochloride

Cat. No.:	HY-B0549AS
CAS No.:	1189678-43-0
Molecular Formula:	$C_{24}H_{22}D_4ClNO_4$
Molecular Weight:	431.95
Target:	mAChR
Pathway:	GPCR/G Protein; Neuronal Signaling
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Flavoxate-d4 hydrochloride (Rec-7-0040-d4) is the deuterium labeled Flavoxate hydrochloride. Flavoxate Hydrochloride is a muscarinic AChR antagonist used in various urinary syndromes and as an antispasmodic[1][2].
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]. Dansette, P.M., M. Jaoen, and C. Pons, HMG-CoA reductase activity in human liver microsomes: comparative inhibition by statins. Exp Toxicol Pathol, 2000. 52(2): p. 145-8.

[3]. Kimura, Y., et al., Mechanisms of the suppression of the bladder activity by flavoxate. Int J Urol, 1996. 3(3): p. 218-27.

[4]. Oka, M., et al., Brain pertussis toxin-sensitive G proteins are involved in the flavoxate hydrochloride-induced suppression of the micturition reflex in rats. Brain Res, 1996. 727(1-2): p. 91-8.

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