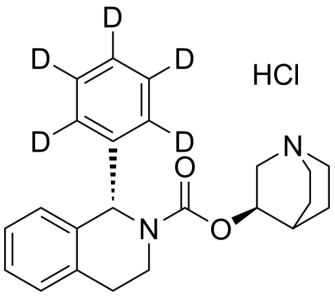
(1R,3S-)Solifenacin-d_5 hydrochloride

Cat. No.:	HY-135329S
CAS No.:	1217810-85-9
Molecular Formula:	$C_{23}H_{22}D_5ClN_2O_2$
Molecular Weight:	403.96
Target:	mAChR; 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	(1R,3S-)Solifenacin-d_5 (hydrochloride) is the deuterium labeled Solifenacin D5 hydrochloride. Solifenacin D5 hydrochloride is a deuterium labeled Solifenacin hydrochloride. Solifenacin hydrochloride is a muscarinic receptor antagonist with pKis of 7.6, 6.9 and 8.0 for M1, M2 and M3 receptors, respectively[1].		
IC_{50} & Target	mAChR2	mAChR1	mAChR3
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]. Ikeda K, et al. M(3) receptor antagonism by the novel antimuscarinic agent solifenacin in the urinary bladderand salivary gland. Naunyn Schmiedebergs Arch Pharmacol. 2002 Aug;366(2):97-103.

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