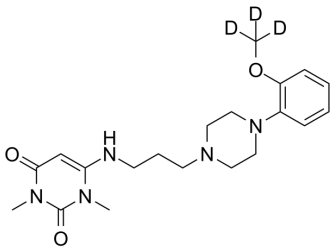
Urapidil-d3

Cat. No.:	HY-B0716S1
CAS No.:	1398066-08-4
Molecular Formula:	$C_{20}H_{26}D_3N_5O_3$
Molecular Weight:	390.49
Target:	5-HT Receptor; Adrenergic Receptor
Pathway:	GPCR/G Protein; Neuronal Signaling
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Urapidil-d3 is the deuterium labeled Urapidil. Urapidil is an α1 adrenoreceptor antagonist and a 5-HT_{1A} receptor 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]. Bopp C, et al. The effect of urapidil, an alpha-1 adrenoceptor antagonist and a 5-HT1A agonist, on the vascular tone of the porcine coronary and pulmonary arteries, the rat aorta and the human pulmonary artery. Eur J Pharmacol. 2016 May 15;779:53-8.

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