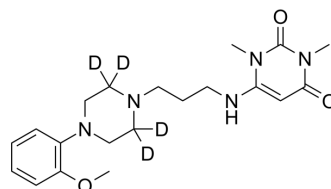


Urapidil-d4

Cat. No.:	HY-B0716S2
CAS No.:	1795122-12-1
Molecular Formula:	C ₂₀ H ₂₅ D ₄ N ₅ O ₃
Molecular Weight:	391.5
Target:	Isotope-Labeled Compounds; Adrenergic Receptor; 5-HT Receptor
Pathway:	Others; GPCR/G Protein; Neuronal Signaling
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Urapidil-d ₄ is the deuterium labeled Urapidil[1]. Urapidil is an α ₁ adrenoceptor antagonist and a 5-HT _{1A} receptor agonist[2].
IC₅₀ & Target	5-HT _{1A} 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 Feb;53(2):211-216.
- [2]. Bopp C, et al. The effect of urapidil, an alpha-1 adrenoceptor antagonist and a 5-HT_{1A} 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.

Caution: Product has not been fully validated for medical applications. For research use only.

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