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Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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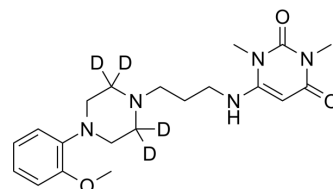
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Urapidil-d₄

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.



SOLVENT & SOLUBILITY

In Vitro

DMSO : 25 mg/mL (63.86 mM; Need ultrasonic and warming)

	Solvent Concentration	Mass	1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM		2.5543 mL	12.7714 mL	25.5428 mL
	5 mM		0.5109 mL	2.5543 mL	5.1086 mL
	10 mM		0.2554 mL	1.2771 mL	2.5543 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description	Urapidil-d ₄ is the deuterium labeled Urapidil[1]. Urapidil is an α ₁ adrenoreceptor antagonist and a 5-HT _{1A} receptor agonist[2].
IC ₅₀ & 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 adrenoreceptor antagonist and a 5-HT_{1A} agonist, on the vascular tone of the porcine coronary and pulmonary arteries, the

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

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