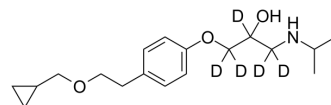


Betaxolol-d5

Cat. No.:	HY-B0381S
CAS No.:	1189957-99-0
Molecular Formula:	C ₁₈ H ₂₄ D ₅ NO ₃
Molecular Weight:	312.46
Target:	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	Betaxolol-d5 is the deuterium labeled Betaxolol. Betaxolol is a selective beta1 adrenergic receptor blocker that can be used for the research of hypertension and glaucoma.
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]. Rudoy, C.A. and E.J. Van Bockstaele, Betaxolol, a selective beta(1)-adrenergic receptor antagonist, diminishes anxiety-like behavior during early withdrawal from chronic cocaine administration in rats. *Prog Neuropsychopharmacol Biol Psychiatry*, 2007. 31(5): p. 1119-29.
- [3]. Lesar, T.S., Comparison of ophthalmic beta-blocking agents. *Clin Pharm*, 1987. 6(6): p. 451-63.

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

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