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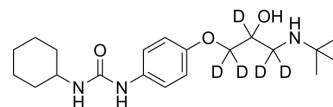
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(Rac)-Talinolol-d₅

Cat. No.:	HY-108286S
CAS No.:	1215343-94-4
Molecular Formula:	C ₂₀ H ₂₈ D ₅ N ₃ O ₃
Molecular Weight:	368.53
Target:	Adrenergic Receptor; 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	(Rac)-Talinolol-d ₅ is the racemate of Talinolol. Talinolol (Cordanum) is a long-acting, cardioselective β ₁ -adrenergic receptor blocker. Talinolol exhibits cardioprotective and antihypertensive activities. Talinolol is also a well-known and frequently used probe substrate for P-glycoprotein (P-gp) activity[1][2][3].
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]. Assmann I. The actions of talinolol, a beta 1-selective beta blocker, in cardiac arrhythmia and acute myocardial infarction. *Curr Med Res Opin*. 1995;13(6):325-42.
- [3]. Kara ZP, et, al. The effects of P-glycoprotein inhibitor zosuquidar on the sex and time-dependent pharmacokinetics of parenterally administered talinolol in mice. *Eur J Pharm Sci*. 2021 Jan 1;156:105589.
- [4]. Shirasaka Y, et, al. Species difference in the effect of grapefruit juice on intestinal absorption of talinolol between human and rat. *J Pharmacol Exp Ther*. 2010 Jan;332(1):181-9.

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

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