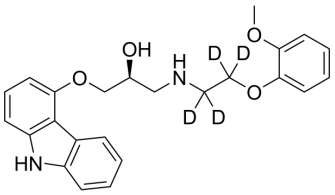
(S)-Carvedilol-d_4

Cat. No.:	HY-B0006BS
CAS No.:	2747915-23-5
Molecular Formula:	$C_{24}H_{22}D_4N_2O_4$
Molecular Weight:	410.5
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	(S)-Carvedilol-d_4 is deuterium labeled (S)-Carvedilol. (S)-Carvedilol, the S-enantiomer of Carvedilol, is a non-selective β/α-1 blocker. (S)-Carvedilol exerts protection against the vascular or cardiac toxicity of Doxorubicin (DOX)[1].
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]. Wu T, et al. Protective effects of S-carvedilol on doxorubicin-induced damages to human umbilical vein endothelial cells and rats. J Appl Toxicol. 2019 Aug;39(8):1233-1244.

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