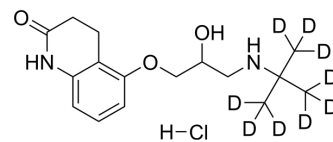


Carteolol-d₉ hydrochloride

Cat. No.:	HY-17495AS
CAS No.:	1346602-13-8
Molecular Formula:	C ₁₆ H ₁₆ D ₉ ClN ₂ O ₃
Molecular Weight:	337.89
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	Carteolol-d ₉ (hydrochloride) is the deuterium labeled Carteolol hydrochloride. Carteolol hydrochloride (OPC-1085 hydrochloride) is a non-selective beta blocker used to treat glaucoma[1][2].
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]. Kuwahara, K., et al., Carteolol hydrochloride protects human corneal epithelial cells from UVB-induced damage in vitro. *Cornea*, 2005. 24(2): p. 213-20.
- [3]. Trinquand, C., et al., [Efficacy and safety of long-acting carteolol 1% once daily. A double-masked, randomized study]. *J Fr Ophtalmol*, 2003. 26(2): p. 131-6.

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

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