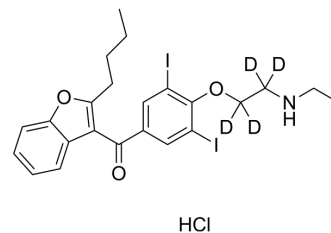


Desethyl Amiodarone-d₄ hydrochloride

Cat. No.:	HY-130353S
CAS No.:	1189960-80-2
Molecular Formula:	C ₂₃ H ₂₂ D ₄ ClI ₂ NO ₃
Molecular Weight:	657.74
Target:	Autophagy; Potassium Channel; Isotope-Labeled Compounds
Pathway:	Autophagy; Membrane Transporter/Ion Channel; Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Desethyl Amiodarone-d ₄ (hydrochloride) is the deuterium labeled Desethylamiodarone hydrochloride. Desethylamiodarone hydrochloride (N-desethylamiodarone hydrochloride) is a major active metabolite of Amiodarone. Desethylamiodarone hydrochloride is formed by CYP3A isoenzymes. Amiodarone is an antiarrhythmic agent for inhibition of ATP-sensitive potassium channel with an IC ₅₀ of 19.1 μM[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]. Shayeganpour A, et al. Determination of the enzyme(s) involved in the metabolism of amiodarone in liver and intestine of rat: the contribution of cytochrome P450 3A isoforms. *Drug Metab Dispos.* 2006 Jan;34(1):43-50.
- [3]. Singh, B.N. and E.M. Vaughan Williams, The effect of amiodarone, a new anti-anginal drug, on cardiac muscle. *Br J Pharmacol.* 1970. 39(4): p. 657-67.
- [4]. Rosenbaum, M.B., et al., Clinical efficacy of amiodarone as an antiarrhythmic agent. *Am J Cardiol.* 1976. 38(7): p. 934-44.

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

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