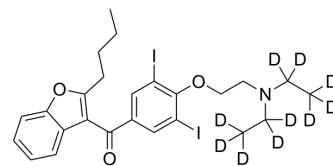


Amiodarone-d₁₀ hydrochloride

Cat. No.:	HY-14187S
CAS No.:	1261393-77-4
Molecular Formula:	C ₂₅ H ₂₀ D ₁₀ ClH ₂ NO ₃
Molecular Weight:	691.83
Target:	Potassium Channel; Autophagy
Pathway:	Membrane Transporter/Ion Channel; Autophagy
Storage:	4°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



HCl

SOLVENT & SOLUBILITY

In Vitro

DMSO : 200 mg/mL (289.09 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	1.4454 mL	7.2272 mL	14.4544 mL
	5 mM	0.2891 mL	1.4454 mL	2.8909 mL
	10 mM	0.1445 mL	0.7227 mL	1.4454 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

Amiodarone-d₁₀ (hydrochloride) is the deuterium labeled Amiodarone. Amiodarone hydrochloride is an antiarrhythmic agent for inhibition of ATP-sensitive potassium channel with an IC₅₀ of 19.1 μM^{[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]. 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.
- [3]. 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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