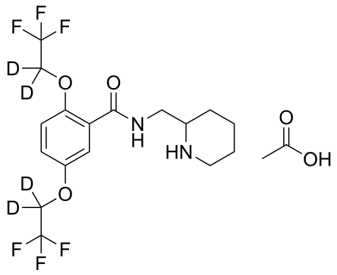
Flecainide-d_4 acetate

Cat. No.:	HY-17429S
CAS No.:	1276197-21-7
Molecular Formula:	$C_{19}H_{20}D_4F_6N_2O_5$
Molecular Weight:	478.42
Target:	Sodium Channel
Pathway:	Membrane Transporter/Ion Channel
Storage:	4°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



BIOLOGICAL ACTIVITY

Description	Flecainide-d_4 (acetate) is the deuterium labeled Flecainide acetate. Flecainide acetate (R-818) is a class 1C antiarrhythmic agent especially used for the management of supraventricular arrhythmia; works by blocking the Nav1.5 sodium channel in the heart, causing prolongation of the cardiac action potential[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]. Yamashita T, Nakajima T, Hamada E, Flecainide inhibits the transient outward current in atrial myocytes isolated from the rabbit heart. J Pharmacol Exp Ther. 1995 Jul;274(1):315-21.

[3]. Desaphy JF, De Luca A, Didonna MP, Different flecainide sensitivity of hNav1.4 channels and myotonic mutants explained by state-dependent block. J Physiol. 2004 Jan 15;554(Pt 2):321-34.

[4]. Kohli V. Oral flecainide is effective in management of refractory tachycardia in infants. Indian Heart J. 2013 Mar-Apr;65(2):168-71.

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