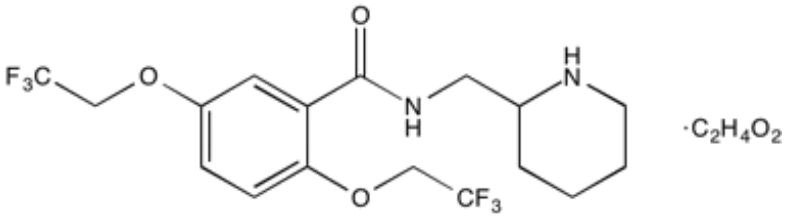
Catalog # 10-2992

Flecainide

CAS# 54143-56-5

N-(2-Piperidylmethyl)-2,5-bis-(2,2,2-trifluoroethoxy)benzamide acetate

Lot # X106917



Open Na^+ channel blocker that inhibits fast Na^+ current in cardiac muscle in a use- and concentration-dependent manner.[1] Orally-active class Ic antiarrhythmic agent.[2,3] Inhibits hERG potassium channels at clinically relevant concentrations.[4]

1) Rouet and Ducouret (1994), *Use- and concentration-dependent effects of flecainide in guinea pig right ventricular muscle*; J. Cardiovasc. Pharmacol., **24** 177
2) Singh *et al*. (1984), *The electrophysiology and pharmacology of verapamil, flecainide, and amiodarone: correlations with clinical effects and antiarrhythmic actions*; Ann. N.Y. Acad. Sci., **432** 210
3) Banitt *et al*. (1977), *Anti-arrhythmics. 2. Synthesis and antiarrhythmic activity of N-(piperidylalkyl)trifluoroethoxybenzamides*; J. Med. Chem., **20** 821
4) Melgari *et al*. (2015), *Molecular basis of hERG potassium channel blockade by the class Ic antiarrhythmic flecainide*; J. Mol. Cell. Cardiol., **86** 42

PHYSICAL DATA

Molecular Weight:	474.39
Molecular Formula:	$C_{17}H_{20}F_6N_3O_3 \bullet C_2H_4O_2$
Purity:	98% by HPLC
	NMR: (Conforms)
Solubility:	DMSO (up to 45 mg/ml), or Water (up to 10 mg/ml)
Physical Description:	White solid
Storage and Stability:	Store as supplied, desiccated at -20°C for up to 1 year from the date of purchase. Solutions in DMSO or distilled water may be stored at -20°C for up to 1 month.

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