

Certificate of Analysis

Product Name: Flecainide acetate

Catalog No.: 1470

Batch No.: 2

CAS Number: 54143-56-5

IUPAC Name: *N*-(2-Piperidylmethyl)-2,5-bis-(2,2,2-trifluoroethoxy)benzamide acetate

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₇H₂₀F₆N₂O₃·C₂H₄O₂

Batch Molecular Weight: 474.4

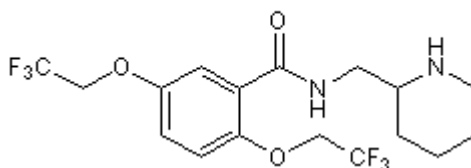
Physical Appearance: White solid

Solubility: water to 25 mM
DMSO to 100 mM

Storage: Desiccate at +4°C

Batch Molecular Structure:

·C₂H₄O₂



2. ANALYTICAL DATA

HPLC: Shows 100% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	48.1	5.1	5.91
Found	48.25	5.03	5.85

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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Description:

Open Na⁺ channel blocker that inhibits fast Na⁺ current in cardiac muscle in a use- and concentration-dependent manner. Orally-active class Ic antiarrhythmic agent.

Physical and Chemical Properties:

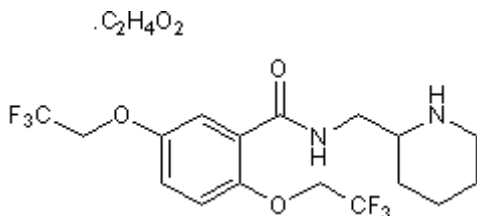
Batch Molecular Formula: C₁₇H₂₀F₆N₂O₃·C₂H₄O₂

Batch Molecular Weight: 474.4

Physical Appearance: White solid

Minimum Purity: >99%

Batch Molecular Structure:



Storage: Desiccate at +4°C

Solubility & Usage Info:

water to 25 mM
DMSO to 100 mM

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

References:

Banitt et al (1977) Antiarrhythmics. 2. Synthesis and antiarrhythmic activity of *N*-(piperidylalkyl)trifluoroethoxybenzamides. *J.Med.Chem.* **20** 821. PMID: 874956.

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.* **17** 251. PMID: 6395762.

Rouet and Ducouret (1994) Use-and concentration-dependent effects of flecainide in guinea pig right ventricular muscle. *J.Cardiovasc.Pharmacol.* **24** 177. PMID: 7526048.

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