PRODUCT INFORMATION

Flecainide (acetate)
Item No. 20388

CAS Registry No.: 54143-56-5
Formal Name: N-(2-piperidinylmethyl)-2,5-bis(2,2,2-trifluoroethoxy)benzamide, monoacetate
MF: C₁₇H₂₀F₆N₂O₃ • C₂H₄O₂
FW: 474.4
Purity: ≥98%
UV/Vis.: λmax: 261 nm
Supplied as: A crystalline solid
Storage: -20°C
Stability: As supplied, 2 years from the QC date provided on the Certificate of Analysis, when stored properly

Laboratory Procedures

Flecainide (acetate) is supplied as a crystalline solid. A stock solution may be made by dissolving the flecainide (acetate) in the solvent of choice. Flecainide (acetate) is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide (DMF), which should be purged with an inert gas. The solubility of flecainide (acetate) in ethanol is approximately 10 mg/ml and approximately 15 mg/ml in DMSO and DMF.

Flecainide (acetate) is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, flecainide (acetate) should first be dissolved in DMSO and then diluted with the aqueous buffer of choice. Flecainide (acetate) has a solubility of approximately 0.33 mg/ml in a 1:2 solution of DMSO:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

Description

Flecainide is an inhibitor of cardiac late sodium current (late I_Na; IC₅₀ = 3.4 µM) and delayed-rectifier potassium current (I_Kr; IC₅₀ = 1.5 µM).¹⁻³ It has been used clinically to suppress arrhythmias and sodium-dependent calcium overload associated with myocardial ischemia and heart failure.⁴

References