

Catalog # 10-4302 Disopyramide

CAS# 3737-09-5 4-(Diisopropylamino)-2-phenyl-2-(2-pyridyl)butyramide Lot # FBA4108

Disopyramide is a clinically useful sodium channel blocker used as an antiarrhythmic for treatment of ventricular tachycardia and hypertrophic cardiomyopathy . It decreases the rate of diastolic depolarization, decreases the upstroke velocity and increases the action potential duration of normal cardiac cells. It decreases the disparity between infarcted and normal myocardium refractory periods. Disopyramide has no effect on α or β -adrenergic receptors but does display significant anticholinergic effects.

- 1) Heel *et al.* (1978), Disopyramide: a review of its pharmacological properties and therapeutic use in treating cardiac arrhythmias; Drugs **15** 331
- 2) Verlinden *et al.* (2015), Disopyramide for Hypertrophic Cardiomyopathy: A Pragmatic Reappraisal of an Old Drug; Pharmacotherapy **35** 1164
- 3) Nakajima et al. (1989), Anti-Cholinergic Effects of Quinidine, Disopyramide, and Procainamide in Isolated Atrial Myocytes: Mediation by Different Molecular Mechanisms; Circ. Res. **64** 297

PHYSICAL DATA

 $\begin{tabular}{lll} Molecular Weight: & 339.48 \\ Molecular Formula: & $C_{21}H_{29}N_3O$ \\ Purity: & $>98\%$ by TLC \\ \end{tabular}$

NMR: (Conforms)

Solubility: DMSO (25 mg/ml) and Ethanol (>35 mg/mL)

Physical Description: White solid

Storage and Stability: Store as supplied at -20°C for up to 1 year from the date of purchase. Solutions in

DMSO may be stored at -20°C for up to 3 months.

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