

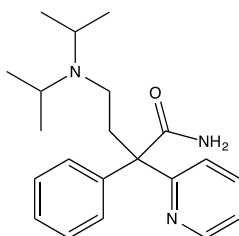
**Catalog # 10-4302**

**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<sup>1</sup> and hypertrophic cardiomyopathy<sup>2</sup>. 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  $\alpha$  or  $\beta$ -adrenergic receptors but does display significant anticholinergic effects.<sup>3</sup>

- 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**

Molecular Weight:	339.48
Molecular Formula:	C <sub>21</sub> H <sub>29</sub> N <sub>3</sub> O
Purity:	>98% by TLC
	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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