

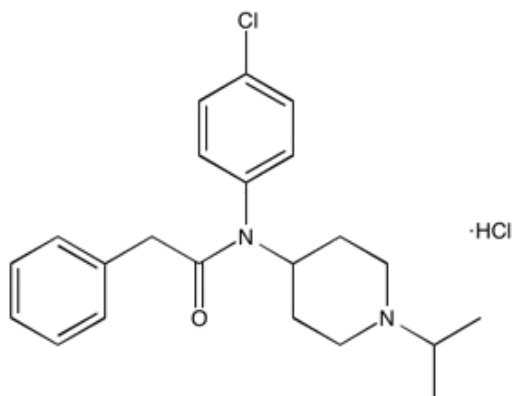
**Catalog # 10-1157**

**Lorcainide hydrochloride**

CAS# 58934-46-6

N-(4-Chlorophenyl)-2-phenyl-N-(1-propan-2-ylpiperidin-4-yl)acetamide hydrochloride

Lot # X101725



Voltage-gated Na<sup>+</sup> channel blocker.<sup>1</sup> Protects murine cultured cortical neurons from injury induced by oxygen-glucose deprivation.<sup>2</sup> Acts at the ouabain binding site of guinea pig cardiac Na<sup>+</sup>/K<sup>+</sup> ATPase and inhibits the enzyme (IC<sub>50</sub> = 34 μM).<sup>3</sup>

- 1) Sheldon *et al.* (1989), *Antiarrhythmic drugs and the cardiac sodium channel: current models*; Clin. Chem., **35** 748
- 2) Lynch *et al.* (1995), *Sodium channel blockers reduce oxygen-glucose deprivation-induced cortical neuronal injury when combined with glutamate receptor antagonists*; J. Pharmacol. Exp. Ther., **273** 554
- 3) Almotrefi *et al.* (1999), *class I antiarrhythmic drug effects on ouabain binding to guinea pig cardiac Na<sup>+</sup>-K<sup>+</sup> ATPase*; Can. J. Physiol. Pharmacol., **77** 866

**PHYSICAL DATA**

Molecular Weight:	407.38
Molecular Formula:	C <sub>22</sub> H <sub>27</sub> ClN <sub>2</sub> O • HCl
Purity:	98% by HPLC
	NMR: (Conforms)
Solubility:	DMSO (up to 20 mg/ml), Water (up to 20 mg/ml), or Ethanol (up to 20 mg/ml)
Physical Description:	Powder
Storage and Stability:	Store as supplied, desiccated at -20°C for up to 1 year from the date of purchase. Solutions in DMSO, distilled water, or ethanol may be stored at -20°C for up to 1 month.

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