



# LKT Laboratories, Inc.

## Propafenone Hydrochloride

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### Product Information

**Product ID** P6852

**CAS No.** 34183-22-7

**Chemical Name** 1-[2-[2-Hydroxy-3-(propylamino)propoxy]phenyl]-3-phenyl-1propanone hydrochloride

**Synonym** Arythmol, Pronon, Rythmol, Rytmonorm

**Formula**  $C_{21}H_{27}NO_3 \cdot HCl$

**Formula Wt.** 377.91

**Melting Point** 171-174°C

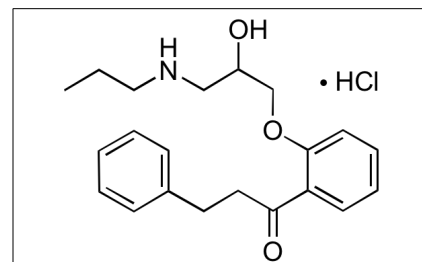
**Purity** ≥98%

**Solubility** Soluble in basic lower aliphatic alcohols, chloroform and hot water. Slightly soluble in cold water. Insoluble in ether.

**Store Temp** Ambient

**Ship Temp** Ambient

**Description** Propafenone is a class Ic anti-arrhythmic compound that inhibits  $\beta$ -adrenergic receptors, slows  $Na^+$  and  $Ca^{2+}$  influx, and decreases overall cellular excitability. Propafenone inhibits Kv1.4  $K^+$  channels and human cardiac two pore-domain (K2P2)  $K^+$  channels. Additionally, propafenone inhibits expression of tyrosinase, TRP-1, and TRP-2 and decreases production of cAMP, suppressing melanogenesis in vitro. TEST!!!!!!



### Pricing and Availability

**Bulk quantities available upon request**

| Product ID | Size | List Price |
|------------|------|------------|
| P6852      | 1 g  | \$43.10    |
| P6852      | 5 g  | \$121.30   |
| P6852      | 25 g | \$314.30   |

**References** Schmidt C, Wiedmann F, Schweizer PA, et al. Class I antiarrhythmic drugs inhibit human cardiac two-pore-domain  $K^+$  (K2P2) channels. *Eur J Pharmacol.* 2013 Dec 5;721(1-3):237-48. PMID: 24070813.

Huh S, Jung E, Lee J, et al. Mechanisms of melanogenesis inhibition by propafenone. *Arch Dermatol Res.* 2010 Sep;302(7):561-5. PMID: 20549222.

Tian L, Jiang X, Rasmusson R, et al. Effect of propafenone on Kv1.4 inactivation. *J Physiol Biochem.* 2006 Dec;62(4):263-70. PMID: 17615952.

**Caution:** This product is intended for laboratory and research use only. It is not for human or drug use.