



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 C₂₁H₂₇NO₃ · HCl

Formula Wt. 377.91

Melting Point 171-174 °C

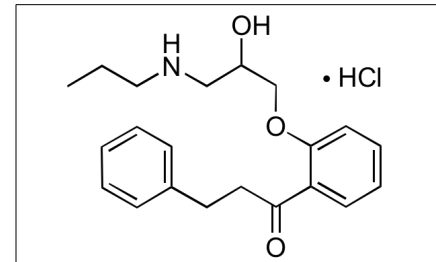
Purity ≥98%

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 β-adrenergic receptors, slows Na⁺ and Ca²⁺ 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.



Bulk quantities available upon request

Product ID	Size
P6852	1 g
P6852	5 g
P6852	25 g

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.