LKT Laboratories, Inc.

Clomipramine Hydrochloride

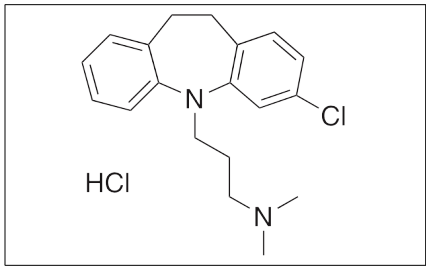
Phone: 888-558-5227
651-644-8424
Fax: 888-558-7329
Email: getinfo@lktlabs.com
Web: lktlabs.com

Product Information

Product ID C4457
CAS No. 17321-77-6
Chemical Name

Synonym

Formula $C_{19}H_{23}ClN_2 \cdot HCl$
Formula Wt. 351.32
Melting Point 189-190°C
Purity ≥98%
Solubility Soluble in water (125 mg/ml), ethanol (70 mg/ml at 25° C), chloroform (1:3), DMSO (70 mg/ml at 25° C), and dilute aqueous acid



Pricing and Availability

Bulk quanitites available upon request

Product ID	Size	List Price
C4457	1 g	$59.30
C4457	5 g	$222.50

Store Temp Ambient
Ship Temp Ambient
Description Clomipramine hydrochloride displays antidepressant and anxiolytic activity and may also be used to treat narcolepsy and obsessive-compulsive disorder (OCD). This compound inhibits serotonin transporters (SERT), norepinephrine transporters (NET), histamine receptors, muscarinic acetylcholine receptors(mAChRs), α1/2-adrenergic receptors, and 5-HT2/3/6/7 receptors. Clomipramine hydrochloride also inhibits L-type Ca2+ channels and exhibits antinociceptive activity in animal models of thermal and mechanical pain stimulation. Additionally, this compound may prolong the cardiac QT interval though its ability to decrease current amplitude from hERG K+ channels. Clomipramine also acts as a functional inhibitor of acid sphingomyelinase (FIASMA).

References

Kostadinov ID, Delev DP, Kostadinova II. Antinociceptive effect of clomipramine through interaction with serotonin 5-HT2 and 5-HT3 receptor subtypes. Folia Med (Plovdiv). 2012 Oct-Dec;54(4):69-77. PMID: 23441472.

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