



LKT Laboratories, Inc.
Maprotiline Hydrochloride

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

Product Information

Product ID M0262

CAS No. 10347-81-6

Chemical Name N-Methyl-9,10-ethanoanthracene-9(10H)-propanamine hydrochloride

Synonym Deprelept, Ludiomil, Psymion

Formula C₂₀H₂₃N • HCl

Formula Wt. 313.87

Melting Point 230-232 °C

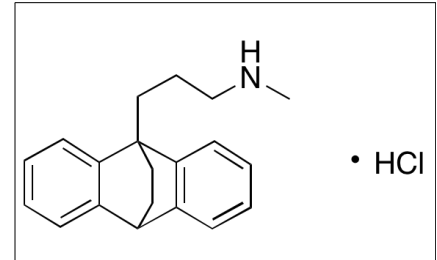
Purity ≥98%

Solubility Soluble in methanol and chloroform. Slightly soluble in water.

Store Temp Ambient

Ship Temp Ambient

Description Maprotiline is a tetracyclic antidepressant that also exhibits sedative, anxiolytic, sympathomimetic, and anticancer activities. Maprotiline acts as an antagonist at norepinephrine transporters (NET), H1 histamine receptors, 5-HT₂ receptors, α₁-adrenergic receptors, muscarinic acetylcholine receptors (mAChRs), and L-type Ca²⁺ channels. Maprotiline induces caspase-mediated apoptosis in neuroblastoma cells, inhibiting cell viability in a JNK- and ERK-dependent manner. This compound also acts as a functional inhibitor of acid sphingomyelinase (FIASMA).



Bulk quantities available upon request

Product ID	Size
M0262	1 g
M0262	5 g

References Jan CR, Su JA, Teng CC, et al. Mechanism of maprotiline-induced apoptosis: role of [Ca²⁺]_i, ERK, JNK and caspase-3 signaling pathways. *Toxicology*. 2013 Feb 8;304:1-12. PMID: 23219590.

Zahradník I, Minarovic I, Zahradníková A. Inhibition of the cardiac L-type calcium channel current by antidepressant drugs. *J Pharmacol Exp Ther*. 2008 Mar;324(3):977-84. PMID: 18048694.

Mayers AG, Baldwin DS. Antidepressants and their effect on sleep. *Hum Psychopharmacol*. 2005 Dec;20(8):533-59. PMID: 16229049.

Muscat R, Papp M, Willner P. Reversal of stress-induced anhedonia by the atypical antidepressants, fluoxetine and maprotiline. *Psychopharmacology (Berl)*. 1992;109(4):433-8. PMID: 1365858.

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