



Certificate of Analysis

www.tocris.com

Product Name: Maprotiline hydrochloride Catalog No.: 0935 Batch No.: 4

EC Number: 233-758-8 CAS Number: 10347-81-6

IUPAC Name: 1-(3-Methylaminopropyl)dibenzo[b,e]bicyclo[2.2.2]octadiene hydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

C₂₀H₂₃N.HCl **Batch Molecular Formula:**

313.87 **Batch Molecular Weight:**

White crystalline solid **Physical Appearance:**

Solubility: ethanol to 10 mM

water to 10 mM

Storage: Store at RT

Batch Molecular Structure: .HCI NHMe

2. ANALYTICAL DATA

 $R_f = 0.76$ (Pyridine:Acetic acid:Water:Butanol [3:8:11:33]) TLC:

At 261°C **Melting Point:**

Shows 100% purity **HPLC:**

¹H NMR: Consistent with structure

Microanalysis: Carbon Hydrogen Nitrogen

> Theoretical 76.53 7.71 4.46 Found 76.55 7.78 4.57





Product Information

www.tocris.com

Product Name: Maprotiline hydrochloride Catalog No.: 0935 Batch No.: 4

CAS Number: 10347-81-6 EC Number: 233-758-8

IUPAC Name: 1-(3-Methylaminopropyl)dibenzo[b,e]bicyclo[2.2.2]octadiene hydrochloride

Description:

Selective noradrenalin re-uptake inhibitor.

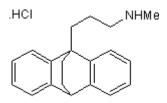
Physical and Chemical Properties:

Batch Molecular Formula: C₂₀H₂₃N.HCl Batch Molecular Weight: 313.87

Physical Appearance: White crystalline solid

Minimum Purity: >99%

Batch Molecular Structure:



Storage: Store at RT

Solubility & Usage Info:

ethanol to 10 mM water to 10 mM

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution,

has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

References:

Merck Index 11 5633.

Pinder et al (1977) Maprotiline: A review of its pharmacological properties and therapeutic efficacy in mental depressive states. Drugs 13 321. PMID: 326531.

Pawlowski and Nowak (1987) Biochemical and pharmacological tests for the prediction of ability of monoamine uptake blockers to inhibit the uptake of noradrenaline in-vivo: the effects of desipramine, maprotiline, femoxetine and citalopram. J.Pharm.Pharmacol. 39 1003. PMID: 2894425.

Rodgers et al (1997) Behavioural effects in mice of subchronic chlordiazepoxide, maprotiline and fluvoxamine. II. The elevated plusmaze. Pharmacol.Biochem.Behav. 57 127. PMID: 9164563.

Tel: +44 (0)1235 529449

www.tocris.com/distributors Tel:+1 612 379 2956