

Certificate of Analysis

www.tocris.com

Product Name: Meptazinol hydrochloride

CAS Number: 59263-76-2

IUPAC Name: 3-(3-Ethylhexahydro-1-methyl-1*H*-azepin-3-yl)phenol hydrochloride

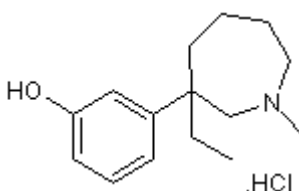
Catalog No.: 3636

Batch No.: 3

EC Number: 261-683-0

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₅H₂₃NO.HCl
Batch Molecular Weight: 269.81
Physical Appearance: White solid
Solubility: water to 100 mM
DMSO to 75 mM
ethanol to 100 mM
Storage: Desiccate at +4°C
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 100% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	66.77	8.97	5.19
Found	66.66	9.05	5.25

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

Product Information

www.tocris.com

Product Name: Meptazinol hydrochloride

Catalog No.: 3636

Batch No.: 3

CAS Number: 59263-76-2

EC Number: 261-683-0

IUPAC Name: 3-(3-Ethylhexahydro-1-methyl-1H-azepin-3-yl)phenol hydrochloride

Description:

Centrally active opioid analgesic. Partial agonist at the μ_1 opioid receptor. Also shown to inhibit acetylcholinesterase.

Physical and Chemical Properties:

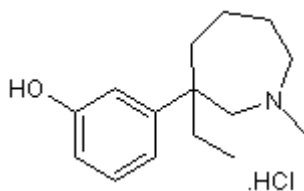
Batch Molecular Formula: C₁₅H₂₃NO.HCl

Batch Molecular Weight: 269.81

Physical Appearance: White solid

Minimum Purity: >99%

Batch Molecular Structure:



Storage: Desiccate at +4°C

Solubility & Usage Info:

water to 100 mM

DMSO to 75 mM

ethanol to 100 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:

Spiegel and Pasternak (1984) Meptazinol: a novel μ_1 selective opioid analgesic. *J.Pharmacol.Exp.Ther.* **228** 414. PMID: 6141283.

Galli et al (1996) Reversible inhibition of cholinesterases by opioids: possible pharmacological consequences. *J.Pharm.Pharmacol.* **48** 116.

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

bio-techne.com

info@bio-techne.com

techsupport@bio-techne.com

North America

Tel: (800) 343 7475

China

info.cn@bio-techne.com

Tel: +86 (21) 52380373

Europe Middle East Africa

Tel: +44 (0)1235 529449

Rest of World

www.tocris.com/distributors

Tel: +1 612 379 2956