

Certificate of Analysis

www.tocris.com

Product Name: (-)-Lobeline hydrochloride

Catalog No.: 1077

Batch No.: 3

CAS Number: 134-63-4

EC Number: 205-150-2

IUPAC Name: 2-[(2*R*,6*S*)-6-[(2*S*)-2-Hydroxyphenethyl]-1-methyl-2-piperidinyl]acetophenone hydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₂H₂₇NO₂.HCl.½H₂O

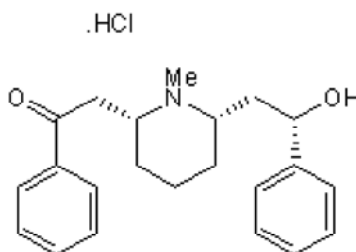
Batch Molecular Weight: 382.93

Physical Appearance: White solid

Solubility: ethanol to 50 mM
water to 10 mM

Storage: Store at RT

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.6% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Optical Rotation: [α]_D = -57.5 (Concentration = 2, Solvent = Water)

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	69	7.63	3.66
Found	68.97	7.62	3.81

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

Product Name: (-)-Lobeline hydrochloride

Catalog No.: 1077

Batch No.: 3

CAS Number: 134-63-4

EC Number: 205-150-2

IUPAC Name: 2-[(2R,6S)-6-[(2S)-2-Hydroxyphenethyl]-1-methyl-2-piperidinyl]acetophenone hydrochloride

Description:

High affinity, partial agonist with a K_i value of 4.4 nM in rat brain.

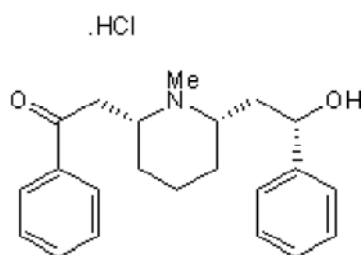
Physical and Chemical Properties:

Batch Molecular Formula: $C_{22}H_{27}NO_2 \cdot HCl \cdot \frac{1}{2}H_2O$

Batch Molecular Weight: 382.93

Physical Appearance: White solid

Batch Molecular Structure:



Storage: Store at RT

Solubility & Usage Info:

ethanol to 50 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:

Farook *et al* (2009) Lobeline, a nicotinic partial agonist attenuates alcohol consumption and preference in male C57BL/6J mice. *Physiol.Behav.* **97** 503. PMID: 19268674.

Damaj *et al* (1997) Pharmacology of lobeline, a nicotinic receptor ligand. *J.Pharmacol.Exp.Ther.* **282** 410. PMID: 9223582.

Merck Index **12** 5580.

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