

Certificate of Analysis

Product Name: Tetrindole mesylate

Catalog No.: 0723

Batch No.: 1

CAS Number: 170964-68-8

IUPAC Name: 2,3,3a,4,5,6-Hexahydro-8-cyclohexyl-1*H*-pyrazino[3,2,1-*j,k*]carbazole mesylate

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₀H₂₆N₂·CH₃SO₃H

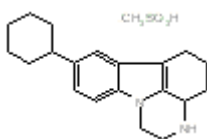
Batch Molecular Weight: 390.54

Physical Appearance: White solid

Solubility: DMSO to 100 mM

Storage: Store at RT

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows >99.9% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

	Carbon Hydrogen Nitrogen		
	Carbon	Hydrogen	Nitrogen
Theoretical	64.59	7.74	7.17
Found	64.53	7.81	7.09

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

Product Name: Tetrindole mesylate

Catalog No.: 0723

Batch No.: 1

CAS Number: 170964-68-8

IUPAC Name: 2,3,3a,4,5,6-Hexahydro-8-cyclohexyl-1*H*-pyrazino[3,2,1-*j,k*]carbazole mesylate

Description:

Novel antidepressant, a selective inhibitor of MAO-A.

Physical and Chemical Properties:

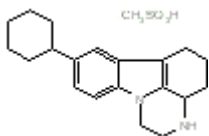
Batch Molecular Formula: C₂₀H₂₆N₂.CH₃SO₃H

Batch Molecular Weight: 390.54

Physical Appearance: White solid

Minimum Purity: >99%

Batch Molecular Structure:



Storage: Store at RT

Solubility & Usage Info:

DMSO 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:

Medvedev et al (1994) Monoamine oxidase inhibition by novel antidepressant tetrindole. *Biochem.Pharmacol.* **47** 303. PMID: 8304974.

Bos et al (1995) Resolution, EPC-syntheses, absolute stereochemistry, and pharmacology of the (*S*)-(+)- and (*R*)-(-)-isomers of the MAO-A inhibitor tetrindole hydrochloride. *Arch.Pharm. (Wenheim)* **328** 619. PMID: 7492268.

Korshunov et al (2000) Hemodynamic effects of tetrindol in alert normotensive mice and rats after blockade of nitric oxide synthesis. *Bull.Exp.Biol.Med.* **130** 777. PMID: 11177242.

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