

Product Name: U 99194 maleate

Catalog No.: 1357

Batch No.: 3

CAS Number: 234757-41-6

IUPAC Name: 2,3-Dihydro-5,6-dimethoxy-*N*, *N*-dipropyl-1*H*-inden-2-amine maleate

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₇H₂₇NO₂.C₄H₄O₄

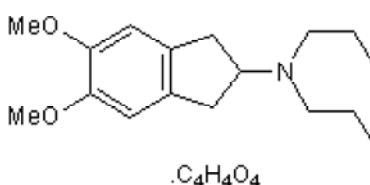
Batch Molecular Weight: 393.48

Physical Appearance: White solid

Solubility: water to 25 mM

Storage: Store at RT

Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.5 (Dichloromethane:Methanol [9:1])

Melting Point: Between 1443 - 1458°C

HPLC: Shows 98.5% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	64.1	7.94	3.56
Found	64.25	8.19	3.45

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

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Description:

Potent, selective D₃ antagonist. K_i values are 160, 2281 and > 10000 nM for human cloned D₃, D₂ and D₄ receptors respectively.

Physical and Chemical Properties:

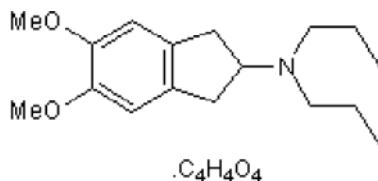
Batch Molecular Formula: C₁₇H₂₇NO₂.C₄H₄O₄

Batch Molecular Weight: 393.48

Physical Appearance: White solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Store at RT

Solubility & Usage Info:

water to 25 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:

LaHoste et al (2000) DA D₁ receptors synergize with D₂, but not D₃ or D₄, receptors in the striatum without the involvement of action potentials. *J.Neurosci.* **20** 6666. PMID: 10964971.

Audinot et al (1998) A comparative *in vitro* and *in vivo* pharmacological characterization of the novel DA D₃ receptor antagonists (+)-S 14297, nafadotride, GR 103,691 and U 99194. *J.Pharmacol.Exp.Ther.* **287** 187. PMID: 9765337.

Clifford and Waddington (1998) Heterogeneity of behavioural profile between three putative selective D₃ DA receptor antagonists using an ethologically based approach. *Psychopharmacology* **136** 284. PMID: 9566814.

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