

**Product Name:** Nomifensine

**Catalog No.:** 1992

**Batch No.:** 4

CAS Number: 32795-47-4

IUPAC Name: 1,2,3,4-Tetrahydro-2-methyl-4-phenyl-8-isoquinolinamine maleate

**1. PHYSICAL AND CHEMICAL PROPERTIES**

**Batch Molecular Formula:** C<sub>16</sub>H<sub>18</sub>N<sub>2</sub>.C<sub>4</sub>H<sub>4</sub>O<sub>4</sub>

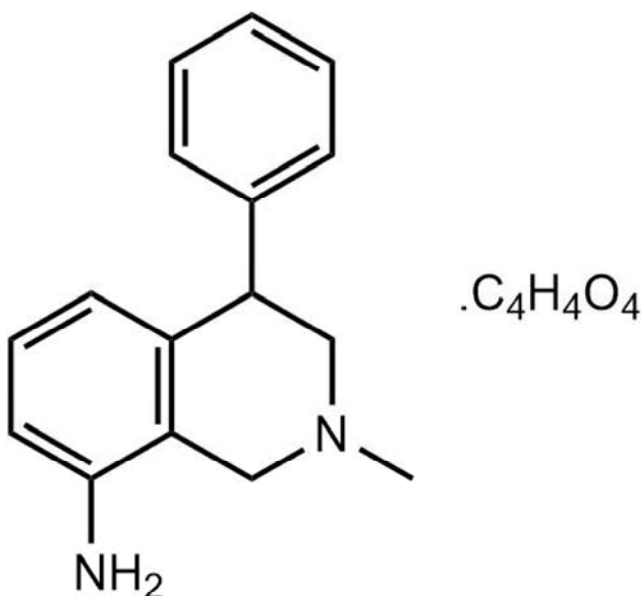
**Batch Molecular Weight:** 354.4

**Physical Appearance:** Yellow solid

**Solubility:** DMSO to 100 mM

**Storage:** Store at +4°C

**Batch Molecular Structure:**



**2. ANALYTICAL DATA**

**HPLC:** Shows 98.7% purity

**<sup>1</sup>H NMR:** Consistent with structure

**Mass Spectrum:** Consistent with structure

**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	67.78	6.26	7.9
Found	67.64	6.25	7.84

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

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**Description:**

Nomifensine is a potent inhibitor of noradrenaline and dopamine uptake ( $K_i$  values are 4.7, 26 and 4000 nM for inhibition of noradrenaline, dopamine and 5-HT uptake respectively, in rat brain). Increases central dopamine levels in rats following systemic administration. Displays antidepressant activity.

**Physical and Chemical Properties:**

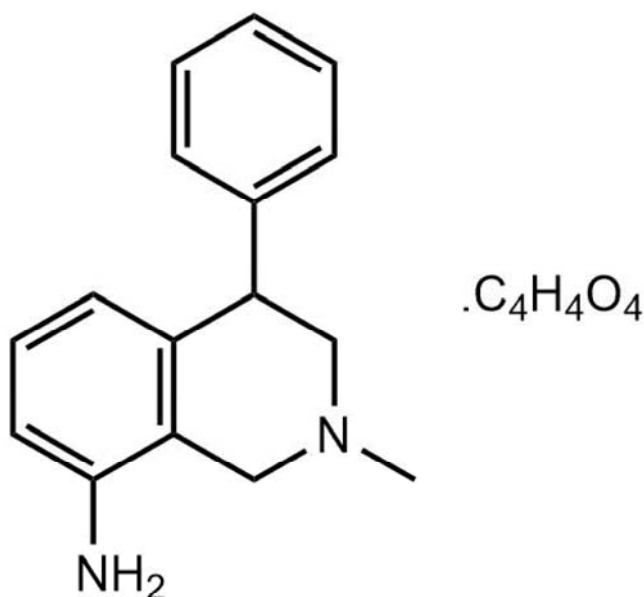
Batch Molecular Formula:  $C_{16}H_{18}N_2 \cdot C_4H_4O_4$

Batch Molecular Weight: 354.4

Physical Appearance: Yellow solid

**Minimum Purity:**  $\geq 98\%$

**Batch Molecular Structure:**



**Storage:** Store at +4°C

**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:**

**Katz *et al*** (2010) Effects of acute and sustained administration of the catecholamine reuptake inhibitor nomifensine on the firing activity of monoaminergic neurons. *J.Psychopharmacol.* **24** 1223. PMID: 19939862.

**Nakachi *et al*** (1995) Effects of various DA uptake inhibitors on striatal extracellular DA levels and behaviours in rats. *Eur.J.Pharmacol.* **281** 195. PMID: 7589207.

**Tuomisto** (1977) Nomifensine and its derivatives as possible tools for studying amine uptake. *Eur.J.Pharmacol.* **42** 101. PMID: 844493.

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