

Certificate of Analysis

www.tocris.com

Product Name: Nomifensine

Catalog No.: 1992

Batch No.: 2

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: C₁₆H₁₈N₂.C₄H₄O₄.

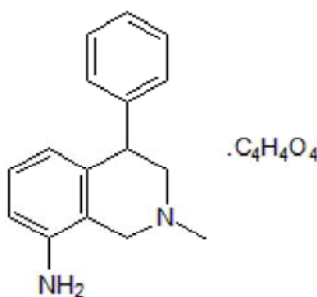
Batch Molecular Weight: 354.4

Physical Appearance: Pale yellow solid

Solubility: DMSO to 100 mM

Storage: Store at +4°C

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.0% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	67.78	6.26	7.9
Found	67.57	6.25	7.97

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: Nomifensine

Catalog No.: 1992

Batch No.: 2

CAS Number: 32795-47-4

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

Description:

Nomifensine is a potent inhibitor of noradrenalin and dopamine uptake (K_i values are 4.7, 26 and 4000 nM for inhibition of noradrenalin, 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:

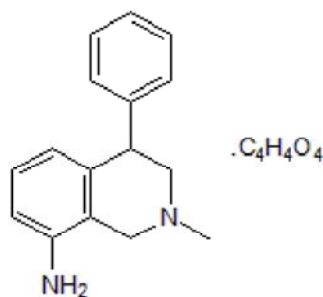
Batch Molecular Formula: $C_{16}H_{18}N_2 \cdot C_4H_4O_4$.

Batch Molecular Weight: 354.4

Physical Appearance: Pale yellow solid

Minimum Purity: ≥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.

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