TOCRIS
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Print Date: Jan 8th 2016

Certificate of Analysis

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Product Name: **Nisoxetine hydrochloride** **Catalog No.: 1025** **Batch No.: 5**

CAS Number: 57754-86-6

IUPAC Name: (±)-γ-(2-Methoxyphenoxy)-*N*-methylbenzenepropanamine hydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_{17}H_{21}NO_2.HCl.¼H_2O$

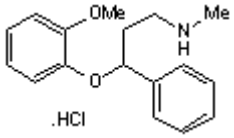
Batch Molecular Weight: 312.32

Physical Appearance: White solid

Solubility: water to 100 mM
phosphate buffered saline to 100 mM

Storage: Store at RT

Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.23 (Dichloromethane:Ethanol:Ammonia soln. [94:5:1])

HPLC: Shows 100% purity

^{1}H NMR: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	65.38	7.26	4.48
Found	65.35	7.24	4.43

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

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CAS Number: 57754-86-6

IUPAC Name: (±)-γ-(2-Methoxyphenoxy)-*N*-methylbenzenepropanamine hydrochloride

Description:

A potent and selective inhibitor of noradrenalin uptake with little or no affinity for a range of other neurotransmitter receptors.

Physical and Chemical Properties:

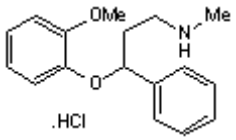
Batch Molecular Formula: $C_{17}H_{21}NO_2.HCl.¼H_2O$

Batch Molecular Weight: 312.32

Physical Appearance: White solid

Minimum Purity: >99%

Batch Molecular Structure:



Storage: Store at RT

Solubility & Usage Info:

water to 100 mM
phosphate buffered saline 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:

Wong *et al* (1975) dl-N-Methyl-3-(o-methoxyphenoxy)-3-phenylpropylamine hydrochloride, Lilly 94939, a potent inhibitor for uptake of norepinephrine into rat brain synaptosomes and heart. Life Sci. ***17*** 755. PMID: 1207394.

Cheetham *et al* (1996) [^{3}H]Nisoxetine - a radioligand for noradrenaline reuptake sites: correlation with inhibition of [^{3}H]noradrenaline uptake and effect of DSP-4 lesioning and antidepressant treatments. Neuropharmacology ***35*** 63. PMID: 8684598.

Zhu *et al* (1997) Down-regulation of norepinephrine transporters on PC12 cells by transporter inhibitors. J.Neurochem. ***68*** 134. PMID: 8978719.

Shearman and Meyer (1998) Norepinephrine transporters in rat placenta labeled with [^{3}H]nisoxetine. J.Pharmacol.Exp.Ther. ***284*** 736. PMID: 9454822.

bio-techne.com
info@bio-techne.com
techsupport@bio-techne.com

North America
Tel: (800) 343 7475

China
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