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Print Date: Jan 15th 2016

Certificate of Analysis

www.tocris.com

Product Name: Venlafaxine hydrochloride

Catalog No.: 2917 Batch No.: 1

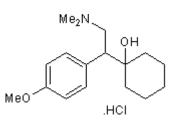
CAS Number: IUPAC Name: 99300-78-4

1-[2-(Dimethylamino)-1-(4-methoxyphenyl)ethyl]cyclohexanol hydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: Batch Molecular Weight: Physical Appearance: Solubility: C₁₇H₂₇NO₂.HCl 313.86 White crystalline solid water to 100 mM DMSO to 50 mM ethanol to 100 mM Store at RT

Storage: Batch Molecular Structure:



Theoretical 65.06

64.92

Found

8.99

9.03

4.46

4.54

2. ANALYTICAL DATA

Melting Point:	At 211°C		
HPLC:	Shows >99.9% purity		
¹ H NMR:	Consistent with structure		
Mass Spectrum:	Consistent with structure		
Microanalysis:	Carbon Hydrogen Nitrogen		

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

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Batch No.: 1

Product Name: Venlafaxine hydrochloride

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Description:

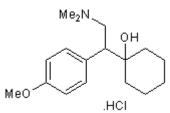
Dual serotonin/noradrenalin re-uptake inhibitor that displays ~ 30-fold higher affinity for SERT than NET (K_i values are 82 and 2480 nM respectively). Antidepressant; increases swimming and climbing behavior in the forced-swim test in rats.

Physical and Chemical Properties:

Batch Molecular Formula: C₁₇H₂₇NO₂.HCl Batch Molecular Weight: 313.86 Physical Appearance: White crystalline solid

Minimum Purity: >99%

Batch Molecular Structure:



Storage: Store at RT

Solubility & Usage Info:

water to 100 mM DMSO to 50 mM ethanol 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).

Catalog No.: 2917

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:

Bymaster et al (2001) Comparative affinity of duloxetine and venlafaxine for serotonin and norepinephrine transporters in vitro and in vivo, human serotonin receptor subtypes, and other neuronal receptors. Neuropsychopharmacol. 25 871.

Magalas et al (2005) The serotonin/noradrenaline reuptake inhibitor venlafaxine attenuates acquistion, but not maintenance, of intravenous self-administration of heroin in rats. Eur.J.Pharmacol. 528 103. PMID: 16325805.

Gould *et al* (2006) A comparison of the chronic treatment effects of venlafaxine and other antidepressants on serotonin and norepinephrine transporters. Biol.Psychiatry **59** 408. PMID: 16140280.

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