

Certificate of Analysis

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Product Name: WY 45233 succinate

Catalog No.: 4194

Batch No.: 1

CAS Number: 448904-47-0

IUPAC Name: 4-[2-(Dimethylamino)-1-(1-hydroxycyclohexyl)ethyl]phenol succinate

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_{16}H_{25}NO_2 \cdot C_4H_6O_4 \cdot H_2O$

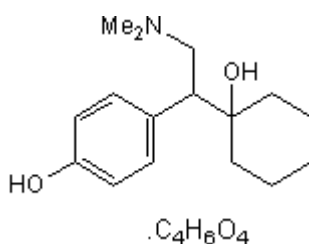
Batch Molecular Weight: 399.48

Physical Appearance: White solid

Solubility: water to 50 mM
DMSO to 100 mM

Storage: Store at +4°C

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 100% purity

1H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	60.13	8.33	3.51
Found	60.05	8.44	3.63

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

Product Information

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CAS Number: 448904-47-0

IUPAC Name: 4-[2-(Dimethylamino)-1-(1-hydroxycyclohexyl)ethyl]phenol succinate

Description:

Serotonin and noradrenalin reuptake inhibitor (SNRI); selective for human serotonin (SERT) and noradrenalin (NET) transporters against 96 other targets (K_i values are 40.2 and 558.4 nM for SERT and NET respectively). Inhibits [³H]5-HT and [³H]NE uptake (IC_{50} values are 47.3 and 531.3 nM). Salt form of the major active metabolite of venlafaxine (Cat. No. 2917).

Physical and Chemical Properties:

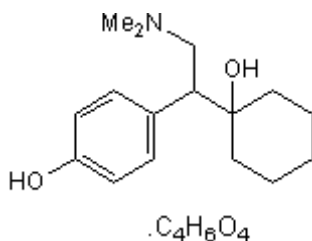
Batch Molecular Formula: $C_{16}H_{25}NO_2 \cdot C_4H_6O_4 \cdot H_2O$

Batch Molecular Weight: 399.48

Physical Appearance: White solid

Minimum Purity: >99%

Batch Molecular Structure:



References:

Alfinito et al (2006) Pharmacokinetic and pharmacodynamic profiles of the novel serotonin and norepinephrine reuptake inhibitor desvenlafaxine succinate in ovariectomized Sprague-Dawley rats. *Brain Res.* **1098** 71. PMID: 16764833.

Deecher et al (2006) Desvenlafaxine succinate: a new serotonin and norepinephrine reuptake inhibitor. *J.Pharmacol.Exp.Ther.* **318** 657. PMID: 16675639.

Mason et al (2007) Desvenlafaxine succinate identifies novel antagonist binding determinants in the human norepinephrine transporter. *J.Pharmacol.Exp.Ther.* **323** 720. PMID: 17673606.

Storage: Store at +4°C

Solubility & Usage Info:

water to 50 mM

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.

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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