

# Certificate of Analysis

**Product Name:** Reboxetine mesylate

**Catalog No.:** 1982

**Batch No.:** 6

CAS Number: 98769-84-7

IUPAC Name: (2*R*\*)-2-[(*R*\*)-(2-Ethoxyphenoxy)phenylmethyl]morpholine mesylate

## 1. PHYSICAL AND CHEMICAL PROPERTIES

**Batch Molecular Formula:** C<sub>19</sub>H<sub>23</sub>NO<sub>3</sub>·CH<sub>3</sub>SO<sub>3</sub>H

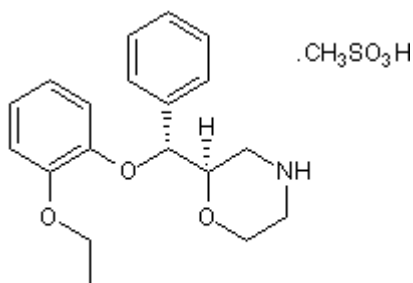
**Batch Molecular Weight:** 409.5

**Physical Appearance:** White solid

**Solubility:** water to 50 mM  
DMSO to 50 mM

**Storage:** Desiccate at +4°C

**Batch Molecular Structure:**



(and enantiomer)

## 2. ANALYTICAL DATA

**HPLC:** Shows 100% purity

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

**Mass Spectrum:** Consistent with structure

**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	58.66	6.65	3.42
Found	58.49	6.71	3.5

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**Description:**

Potent and selective inhibitor of noradrenalin uptake ( $K_i$  values are 1.1, 129 and > 10000 nM for rat NET, SERT and DAT respectively). Displays > 1000-fold selectivity over  $\alpha$ -adrenoceptors, 5-HT, dopamine and muscarinic ACh receptors. Orally active antidepressant.

**Physical and Chemical Properties:**

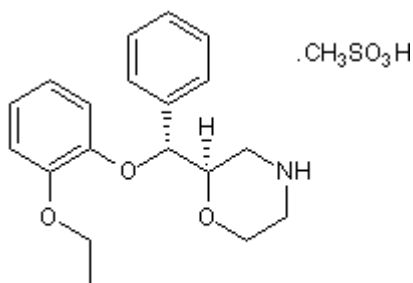
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Batch Molecular Weight: 409.5

Physical Appearance: White solid

**Minimum Purity:** >99%

**Batch Molecular Structure:**



(and enantiomer)

**Storage:** Desiccate at +4°C

**Solubility & Usage Info:**

water to 50 mM  
DMSO to 50 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:**

**Sacchetti et al** (1999) Studies on the acute and chronic effects of reboxetine on extracellular noradrenaline and other monoamines in the rat brain. *Br.J.Pharmacol.* **128** 1332. PMID: 10578149.

**Wong et al** (2000) Reboxetine: a pharmacologically potent, selective, and specific norepinephrine reuptake inhibitor. *Biol.Psychiatry.* **47** 818. PMID: 10812041.

**Millan et al** (2001) S33005, a novel ligand at both serotonin and norepinephrine transporters: I Receptor binding, electrophysiological, and neurochemical profile in comparison with venlafaxine, reboxetine, citalopram, and clomipramine. *J.Pharmacol.Exp.Ther.* **298** 565. PMID: 11454918.

**Owen and Whitton** (2003) Reboxetine modulates norepinephrine efflux in the frontal cortex of the freely moving rat: the involvement of  $\alpha_2$  and 5-HT<sub>1A</sub> receptors. *Neurosci.Lett.* **348** 171. PMID: 12932821.

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