

Product Name: Reboxetine mesylate

Catalog No.: 1982

Batch No.: 7

CAS Number: 98769-84-7

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

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₉H₂₃NO₃.CH₃SO₃H.¼H₂O

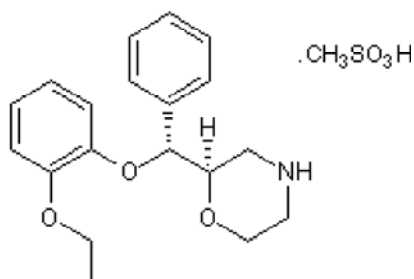
Batch Molecular Weight: 414

Physical Appearance: Beige solid

Solubility: water to 50 mM
DMSO to 50 mM

Storage: Store at +4°C

Batch Molecular Structure:



(and enantiomer)

2. ANALYTICAL DATA

HPLC: Shows 99.9% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	58.02	6.7	3.38
Found	58.04	6.59	3.33

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Description:

Reboxetine mesylate is a 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 α -adrenoceptors, 5-HT, dopamine and muscarinic ACh receptors. Orally active antidepressant.

Physical and Chemical Properties:

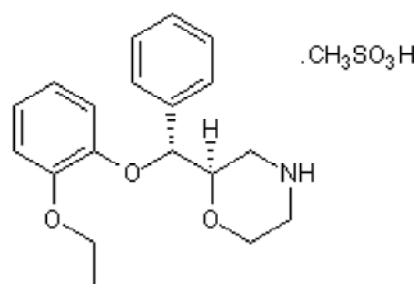
Batch Molecular Formula: C₁₉H₂₃NO₃.CH₃SO₃H.½H₂O

Batch Molecular Weight: 414

Physical Appearance: Beige solid

Minimum Purity: ≥99%

Batch Molecular Structure:



(and enantiomer)

Storage: Store 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:

Owen and Whitton (2003) Reboxetine modulates NE efflux in the frontal cortex of the freely moving rat: the involvement of α_2 and 5-HT_{1A} receptors. *Neurosci.Lett.* **348** 171. PMID: 12932821.

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

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

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