

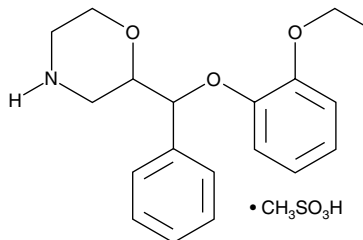
# Product Information



## Reboxetine (mesylate)

Item No. 15038

**CAS Registry No.:** 98769-84-7  
**Formal Name:** (2R)-rel-2-[(R)-(2-ethoxyphenoxy)phenylmethyl]-morpholine, methanesulfonate  
**Synonyms:** Davedax, Edronax, FCE 20124, PNU 155950E  
**MF:**  $C_{19}H_{23}NO_3 \cdot CH_3SO_3H$   
**FW:** 409.5  
**Purity:**  $\geq 98\%$   
**Stability:**  $\geq 2$  years at  $-20^\circ C$   
**Supplied as:** A crystalline solid  
**UV/Vis.:**  $\lambda_{max}$ : 276 nm



### Laboratory Procedures

For long term storage, we suggest that reboxetine (mesylate) be stored as supplied at  $-20^\circ C$ . It should be stable for at least two years.

Reboxetine (mesylate) is supplied as a crystalline solid. A stock solution may be made by dissolving the reboxetine (mesylate) in the solvent of choice. Reboxetine (mesylate) is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide (DMF), which should be purged with an inert gas. The solubility of reboxetine (mesylate) in ethanol is approximately 5 mg/ml and approximately 20 mg/ml in DMSO and DMF.

Further dilutions of the stock solution into aqueous buffers or isotonic saline should be made prior to performing biological experiments. Ensure that the residual amount of organic solvent is insignificant, since organic solvents may have physiological effects at low concentrations. Organic solvent-free aqueous solutions of reboxetine (mesylate) can be prepared by directly dissolving the crystalline solid in aqueous buffers. The solubility of reboxetine (mesylate) in PBS, pH 7.2, is approximately 10 mg/ml. We do not recommend storing the aqueous solution for more than one day.

Reboxetine is an antidepressant compound that selectively inhibits norepinephrine uptake ( $IC_{50}s = 8.2$  and  $1,070$  nM for norepinephrine and serotonin transporters, respectively).<sup>1</sup> It displays greater than 1,000-fold affinity for binding rat norepinephrine receptors compared to serotonin, histamine, acetylcholine, or dopamine receptors ( $K_i$ s = 1.1, 129, 1,400, 3,900, and  $>10,000$  nM, respectively).<sup>1</sup>

### Reference

1. Hajós, M., Fleishaker, J.C., Filipiak-Reisner, J.K., *et al.* The selective norepinephrine reuptake inhibitor antidepressant reboxetine: Pharmacological and clinical profile. *CNS Drug Rev.* **10(1)**, 23-44 (2004).

### Related Products

For a list of related products please visit: [www.caymanchem.com/catalog/15038](http://www.caymanchem.com/catalog/15038)

**WARNING: THIS PRODUCT IS FOR LABORATORY RESEARCH ONLY: NOT FOR ADMINISTRATION TO HUMANS. NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.**

#### SAFETY DATA

This material should be considered hazardous until information to the contrary becomes available. Do not ingest, swallow, or inhale. Do not get in eyes, on skin, or on clothing. Wash thoroughly after handling. This information contains some, but not all, of the information required for the safe and proper use of this material. Before use, the user must review the complete Safety Data Sheet, which has been sent via email to your institution.

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Cayman Chemical Company makes **no warranty or guarantee** of any kind, whether written or oral, expressed or implied, including without limitation, any warranty of fitness for a particular purpose, suitability and merchantability, which extends beyond the description of the chemicals hereof. Cayman warrants only to the original customer that the material will meet our specifications at the time of delivery.

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