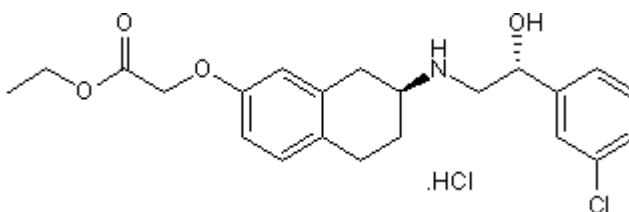


**Product Name:** SR 58611A **Catalog No.:** 3986 **Batch No.:** 1  
**CAS Number:** 121524-09-2  
**IUPAC Name:** [[[7S]-7-[[[(2R)-2-(3-chlorophenyl)-2-hydroxyethyl]amino]-5,6,7,8-tetrahydro-2-naphthalenyl]ox]y]acetic acid ethyl ester hydrochloride

**1. PHYSICAL AND CHEMICAL PROPERTIES**

**Batch Molecular Formula:** C<sub>22</sub>H<sub>26</sub>ClNO<sub>4</sub>.HCl.  
**Batch Molecular Weight:** 440.36  
**Physical Appearance:** White solid  
**Solubility:** DMSO to 100 mM  
**Storage:** Desiccate at RT  
**Batch Molecular Structure:**



**2. ANALYTICAL DATA**

**TLC:** R<sub>f</sub> = 0.25 (Ethyl acetate)  
**HPLC:** Shows 99% purity  
**<sup>1</sup>H NMR:** Consistent with structure  
**Mass Spectrum:** Consistent with structure  
**Optical Rotation:** [α]<sub>D</sub> = -82 (Concentration = 0.5, Solvent = Methanol)

**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	60.01	6.18	3.18
Found	59.94	6.17	3.29

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**Description:**

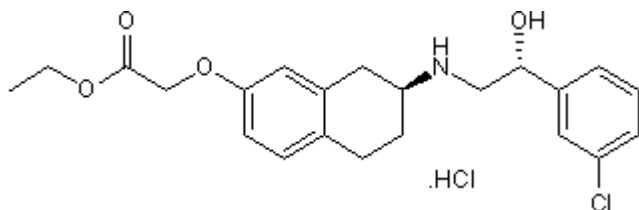
Selective  $\beta_3$ -adrenergic receptor agonist. Displays both anxiolytic and antidepressant effects in rodent models. Orally active and brain penetrant.

**Physical and Chemical Properties:**

Batch Molecular Formula: C<sub>22</sub>H<sub>26</sub>ClNO<sub>4</sub>.HCl.  
 Batch Molecular Weight: 440.36  
 Physical Appearance: White solid

**Minimum Purity:** >98%

**Batch Molecular Structure:**



**Storage:** Desiccate at RT

**Solubility & Usage Info:**

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.

**References:**

**Consoli et al (2007)** Behavioral effects of the  $\beta_3$  adrenoceptor agonist SR58611A: is it the putative prototype of a new class of antidepressant/anxiolytic drugs? *Eur.J.Pharmacol* **573** 139. PMID: 17669397.

**Claustre et al (2008)** Effects of the  $\beta_3$ -adrenoceptor (Adrb3) agonist SR58611A (amibegron) on serotonergic and noradrenergic transmission in the rodent: relevance to its antidepressant/anxiolytic-like profile. *Neuroscience* **156** 353. PMID: 18691638.

**Stemmelin et al (2008)** Stimulation of the  $\beta_3$ -adrenoceptor as a novel treatment strategy for anxiety and depressive disorders. *Neuropsychopharmacology* **33** 574. PMID: 17460614.

**Tamburella et al (2010)** The beta(3) adrenoceptor agonist, amibegron (SR58611A) counteracts stress-induced behavioral and neurochemical changes. *Eur.Neuropsychopharmacol.* **20** 704. PMID: 20537869.

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