

Product Name: SR 59230A hydrochloride

Catalog No.: 1511

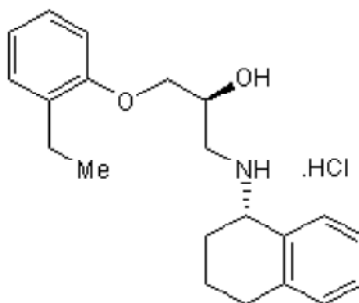
Batch No.: 5

CAS Number: 1135278-41-9

IUPAC Name: 1-(2-Ethylphenoxy)-3-[[[(1S)-1,2,3,4-tetrahydro-1-naphthalenyl]amino]-(2S)-2-propanol hydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₁H₂₇NO₂.HCl
Batch Molecular Weight: 361.91
Physical Appearance: White solid
Solubility: water to 10 mM
DMSO to 100 mM
Storage: Store at RT
Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.38 (Dichloromethane:Methanol:Ammonia soln. [90:9:1])
HPLC: Shows 98.2% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Optical Rotation: [α]_D = -24.1 (Concentration = 0.5, Solvent = Methanol)
Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	69.69	7.8	3.87
Found	69.67	7.65	3.88

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

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Description:

SR 59230A hydrochloride is a potent and selective β_3 adrenoceptor antagonist (IC₅₀ values are 40, 408 and 648 nM for β_3 , β_1 and β_2 receptors respectively). Orally active in vivo.

Physical and Chemical Properties:

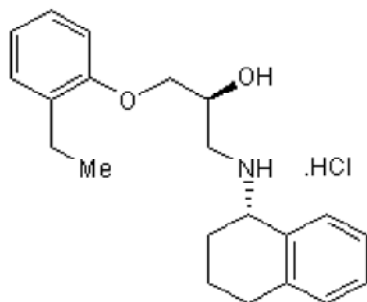
Batch Molecular Formula: C₂₁H₂₇NO₂.HCl

Batch Molecular Weight: 361.91

Physical Appearance: White solid

Minimum Purity: ≥98%

Batch Molecular Structure:



Storage: Store at RT

Solubility & Usage Info:

water to 10 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.

References:

Mizuno et al (2002) Stimulation of β_3 -adrenoceptors causes phosphorylation of p38 mitogen-activated protein kinase via a stimulatory G protein-dependent pathway in 3T3-L1 adipocytes. *Br.J.Pharmacol.* **135** 951. PMID: 11861323.

Manara et al (1996) Functional identification of rat atypical β -adrenoceptors by the first β_3 -selective antagonists, aryloxypropanolaminotetralins. *Br.J.Pharmacol.* **117** 435. PMID: 8821531.

Manara et al (1995) Aryloxypropanolaminotetralins are the first selective antagonists for atypical (β_3) β -adrenoceptors. *Pharmacol.Comm.* **6** 253.

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