

Certificate of Analysis

www.tocris.com

Product Name: (S)-(-)-Atenolol

Catalog No.: 0393

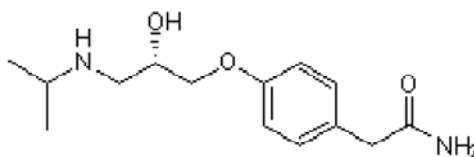
Batch No.: 3

CAS Number: 93379-54-5

IUPAC Name: (S)-(-)-4-[2-Hydroxy-3-[(1-methylethyl)amino]propoxy]benzeneacetamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₄H₂₂N₂O₃
Batch Molecular Weight: 266.34
Physical Appearance: White crystalline solid
Solubility: water to 25 mM
Storage: Store at RT
Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.52 (Chloroform:Methanol:Ammonia soln. [10:1:0.1])
Melting Point: At 157°C
HPLC: Shows >97.2% purity
¹H NMR: Consistent with structure
Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	63.14	8.33	10.51
Found	62.98	8.43	10.41

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

bio-techne.com

info@bio-techne.com
techsupport@bio-techne.com

North America

Tel: (800) 343 7475

China

info.cn@bio-techne.com
Tel: +86 (21) 52380373

Europe Middle East Africa

Tel: +44 (0)1235 529449

Rest of World

www.tocris.com/distributors
Tel: +1 612 379 2956

Product Name: (S)-(-)-Atenolol

Catalog No.: 0393

Batch No.: 3

CAS Number: 93379-54-5

IUPAC Name: (S)-(-)-4-[2-Hydroxy-3-[(1-methylethyl)amino]propoxy]benzeneacetamide

Description:

The active enantiomer of (RS)-atenolol, a cardioselective β -adrenergic blocker. Racemate also available.

Physical and Chemical Properties:

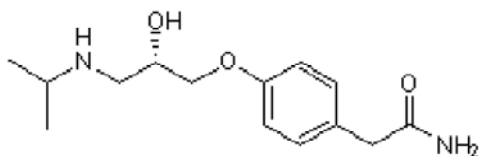
Batch Molecular Formula: C₁₄H₂₂N₂O₃

Batch Molecular Weight: 266.34

Physical Appearance: White crystalline solid

Minimum Purity: >97%

Batch Molecular Structure:



Storage: Store at RT

Solubility & Usage Info:

water to 25 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:

Stoschitzky et al (1993) Stereoselective features of (R)- and (S)-atenolol: clinical pharmacological, pharmacokinetic, and radioligand binding studies. *Chirality* **5** 15. PMID: 8383518.

Merck Index **12** 892.

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

bio-techne.com

info@bio-techne.com

techsupport@bio-techne.com

North America

Tel: (800) 343 7475

China

info.cn@bio-techne.com

Tel: +86 (21) 52380373

Europe Middle East Africa

Tel: +44 (0)1235 529449

Rest of World

www.tocris.com/distributors

Tel:+1 612 379 2956