

Product Name: BRL 37344, sodium salt

Catalog No.: 0948

Batch No.: 5

CAS Number: 127299-93-8

IUPAC Name: (R*,R*)-(±)-4-[2-[(2-(3-Chlorophenyl)-2-hydroxyethyl)amino]propyl]phenoxyacetic acid, sodium salt

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₉H₂₁NO₄ClNa.1½H₂O

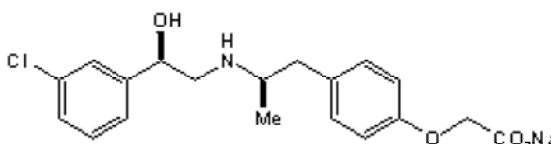
Batch Molecular Weight: 412.84

Physical Appearance: White solid

Solubility: water to 100 mM

Storage: Store at RT

Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.23 (Dichloromethane:Methanol [4:1])

HPLC: Shows >99.21% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen	Sodium
Theoretical	55.28	5.86	3.39	5.57
Found	55.21	5.76	3.04	5.29

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

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Description:

Potent and selective β_3 adrenoceptor agonist (K_i values are 287, 1750 and 1120 nM for β_3 , β_1 and β_2 receptors respectively).

Physical and Chemical Properties:

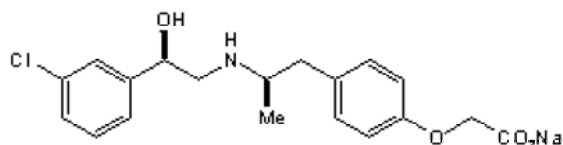
Batch Molecular Formula: $C_{19}H_{21}NO_4ClNa \cdot 1\frac{1}{2}H_2O$

Batch Molecular Weight: 412.84

Physical Appearance: White solid

Minimum Purity: $\geq 98\%$

Batch Molecular Structure:



Storage: Store at RT

Solubility & Usage Info:

water 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.

Licensing Information:

Sold with the permission of GlaxoSmithKline

References:

Board *et al* (2000) BRL37344, but not CGP12177, stimulates fuel oxidation by soleus muscle in vitro. *Eur.J.Pharmacol.* **406** 33. PMID: 11011029.

Ayo Oriwo *et al* (1996) The selectivity in vitro of the stereoisomers of the beta-3 adrenoceptor agonist BRL 37344. *J.Pharmacol.Exp.Ther.* **277** 22. PMID: 8613923.

Strosberg and Pietri-Rouxel (1996) Function and regulation of the β_3 -adrenoceptor. *TiPS* **17** 373. PMID: 8979772.

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