

**Product Name:** ZD 2079

**Catalog No.:** 2154

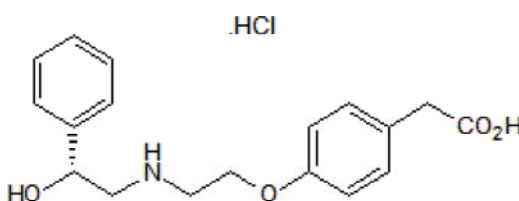
**Batch No.:** 1

CAS Number: 178600-17-4

IUPAC Name: 4-[2-[[[(2R)-2-Hydroxy-2-phenylethyl]amino]ethoxy]-benzeneacetic acid hydrochloride

**1. PHYSICAL AND CHEMICAL PROPERTIES**

**Batch Molecular Formula:** C<sub>18</sub>H<sub>21</sub>NO<sub>4</sub>.HCl  
**Batch Molecular Weight:** 351.83  
**Physical Appearance:** White solid  
**Solubility:** water to 25 mM  
**Storage:** Desiccate at +4°C  
**Batch Molecular Structure:**



**2. ANALYTICAL DATA**

**TLC:** R<sub>f</sub> = 0.69 (Pyridine:Acetic acid:Water:Butanol [3:8:11:33])  
**HPLC:** Shows 99.8% purity  
**<sup>1</sup>H NMR:** Consistent with structure  
**Optical Rotation:** [α]<sub>D</sub> = -18 (Concentration = 0.5, Solvent = Water)

|                       |             |        |          |          |
|-----------------------|-------------|--------|----------|----------|
| <b>Microanalysis:</b> |             | Carbon | Hydrogen | Nitrogen |
|                       | Theoretical | 61.45  | 6.3      | 3.98     |
|                       | Found       | 61.37  | 6.32     | 3.96     |

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

**Product Name:** ZD 2079

**Catalog No.:** 2154

**Batch No.:** 1

CAS Number: 178600-17-4

IUPAC Name: 4-[2-[[*(2R)*-2-Hydroxy-2-phenylethyl]amino]ethoxy]-benzeneacetic acid hydrochloride

**Description:**

$\beta_3$ -adrenoceptor agonist. Relaxes rat mesenteric artery and isolated aorta in vitro. Inhibits *ob* gene expression and circulating leptin levels in lean mice in vivo.

**Physical and Chemical Properties:**

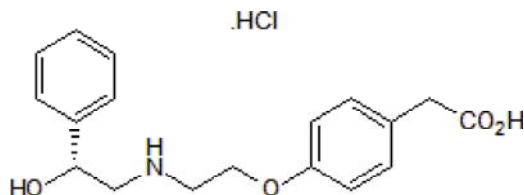
Batch Molecular Formula: C<sub>18</sub>H<sub>21</sub>NO<sub>4</sub>.HCl

Batch Molecular Weight: 351.83

Physical Appearance: White solid

**Minimum Purity:** ≥99%

**Batch Molecular Structure:**



**Storage:** Desiccate at +4°C

**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.

**Licensing Information:**

Sold with the permission of AstraZeneca UK Ltd.

**References:**

**Kozłowska *et al*** (2003) Atypical  $\beta$ -adrenoceptors, different from  $\beta_3$ -adrenoceptors, relax the rat isolated mesenteric artery. *Br.J.Pharmacol.* **140** 3. PMID: 12967929.

**Brawley *et al*** (2000) Role of endothelium/nitric oxide in atypical  $\beta$ -adrenoceptor-mediated relaxation in rat isolated aorta. *Eur.J.Pharmacol.* **398** 285. PMID: 10854841.

**Trayhurn *et al*** (1996) Rapid inhibition of *ob* gene expression and circulating leptin levels in lean mice by the  $\beta_3$ -adrenoceptor agonists BRL 35135A and ZD2079. *Biochem.Biophys.Res.Comm.* **228** 605.

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