

Certificate of Analysis

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Product Name: Procaterol hydrochloride

Catalog No.: 1102

Batch No.: 4

CAS Number: 62929-91-3

EC Number: 263-763-0

IUPAC Name: (±)-*erythro*-8-Hydroxy-5-[1-hydroxy-2-(isopropylamino)butyl]carbostyryl hydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₆H₂₂N₂O₃·HCl·2¾H₂O

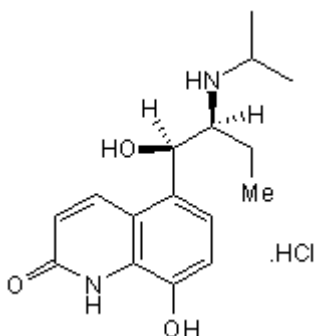
Batch Molecular Weight: 376.36

Physical Appearance: White solid

Solubility: water to 100 mM
DMSO to 100 mM

Storage: Store at RT

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.5% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	51.06		7.44
Found	50.98		7.51

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

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IUPAC Name: (±)-erythro-8-Hydroxy-5-[1-hydroxy-2-(isopropylamino)butyl]carbostyryl hydrochloride

Description:

Specific and very potent β_2 agonist.

Physical and Chemical Properties:

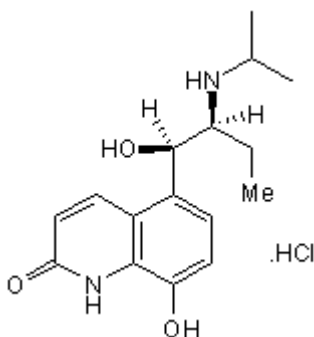
Batch Molecular Formula: $C_{16}H_{22}N_2O_3 \cdot HCl \cdot 2\frac{3}{4}H_2O$

Batch Molecular Weight: 376.36

Physical Appearance: White solid

Minimum Purity: >99%

Batch Molecular Structure:



Storage: Store at RT

Solubility & Usage Info:

water to 100 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:

Yoshizaki et al (1976) Sympathomimetic amines having a carbostyryl nucleus. *J.Med.Chem.* **19** 1138. PMID: 10441.

Yoshizaki et al (1977) Isomers of erythro-5-(1-hydroxy-2-isopropylaminobutyl)-8-hydroxycarbostyryl, a new bronchodilator. *J.Med.Chem.* **20** 1103. PMID: 894683.

Kotsonis and Majewski (1994) Facilitation by procaterol, a β -adrenoceptor agonist, of noradrenaline release in the pithed rat independently of angiotensin II formation. *Br.J.Pharmacol.* **113** 781. PMID: 7858867.

Lakhlani et al (1994) Pharmacological characterization and anatomical localization of prejunctional β -adrenoceptors in the rat kidney. *Br.J.Pharmacol.* **111** 1296. PMID: 8032617.

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