

Certificate of Analysis

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Product Name: Zinterol hydrochloride

Catalog No.: 1051

Batch No.: 4

CAS Number: 38241-28-0

IUPAC Name: *N*-[5-[2-[(1,1-Dimethyl-2-phenylethyl)amino]-1-hydroxyethyl]-2-hydroxyphenyl]methanesulphonamide hydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₉H₂₆N₂O₄S.HCl

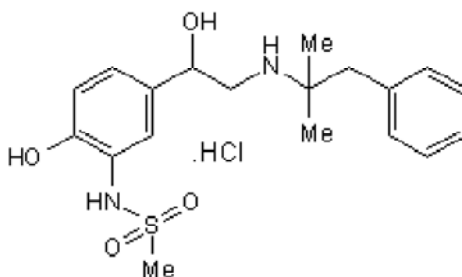
Batch Molecular Weight: 414.95

Physical Appearance: White solid

Solubility: water to 5 mM
DMSO to 100 mM

Storage: Store at +4°C

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 98.9% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	55	6.56	6.75
Found	55.09	6.42	6.73

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

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Description:

Zinterol hydrochloride is a potent and selective β_2 -adrenoceptor agonist (pK_B values are 8.3 and < 5.7 for β_2 and β_1 receptors respectively, as measured in human artery).

Physical and Chemical Properties:

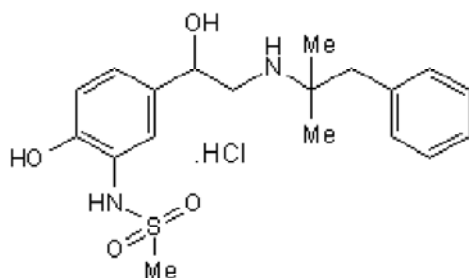
Batch Molecular Formula: $C_{19}H_{26}N_2O_4S \cdot HCl$

Batch Molecular Weight: 414.95

Physical Appearance: White solid

Minimum Purity: $\geq 98\%$

Batch Molecular Structure:



Storage: Store at $+4^\circ C$

Solubility & Usage Info:

water to 5 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 $45-60^\circ C$ 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 $-20^\circ C$ or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

References:

Hutchinson *et al* (2006) Agonist effects of zinterol at the mouse and human β_3 -adrenoceptor. *Naunyn Schmiedebergs Arch.Pharmacol.* **373** 158. PMID: 16601951.

Arvydas Skeberdis *et al* (1997) Beta-2 adrenergic activation of L-type Ca^{2+} current in cardiac myocytes. *J.Pharmacol.Exp.Ther.* **283** 452. PMID: 9353357.

Kauman (1997) Four β -adrenoceptor subtypes in the mammalian heart. *TIPS* **18** 70. PMID: 9133774.

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