Certificate of Analysis

Product Name: **Sotalol hydrochloride** **Catalog No.: 0952** **Batch No.: 3**

CAS Number: 959-24-0 EC Number: 213-496-0

IUPAC Name: *N*-[4-[1-Hydroxy-2-[(1-methylethyl)amino]ethyl]phenyl]methanesulfonamide hydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_{12}H_{20}N_2O_3S.HCl$

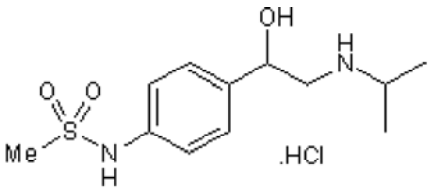
Batch Molecular Weight: 308.82

Physical Appearance: White solid

Solubility: water to 50 mM
phosphate buffered saline to 100 mM

Storage: Store at RT

Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.26 (Dichloromethane:Methanol [10:1])

Melting Point: At 196°C

HPLC: Shows >99.9% purity

^{1}H NMR: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	46.67	6.85	9.07
Found	46.66	7.08	8.98

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 Information

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IUPAC Name: *N*-[4-[1-Hydroxy-2-[(1-methylethyl)amino]ethyl]phenyl]methanesulfonamide hydrochloride

Description:

A relatively potent pure β adrenergic antagonist, unique in possessing additional class III antiarrhythmic activity.

Physical and Chemical Properties:

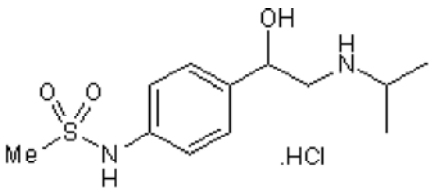
Batch Molecular Formula: $C_{12}H_{20}N_2O_3S.HCl$

Batch Molecular Weight: 308.82

Physical Appearance: White solid

Minimum Purity: ≥99%

Batch Molecular Structure:



Storage: Store at RT

Solubility & Usage Info:

water to 50 mM
phosphate buffered saline 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:

Fiset *et al* (1997) Block of I_{ks} by the diuretic agent indap. modulates cardiac electrophysiological effects of the class III antiarrhythmic drug *dl*-sotalol. J.Pharmacol.Exp.Ther. ***283*** 148. PMID: 9336319.

Claudel and Touboul (1995) Sotalol: from 'just another beta blocker' to 'the prototype class III antidysrhythmic compound'. Pacing Clin.Electrophysiol. ***18*** 451. PMID: 7770366.

Uloth *et al* (1966) Sulfonanilides. I. Monoalkyl- and arylsulfonamidophenethanolamines. J.Med.Chem. ***9*** 88. PMID: 6006227.