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Print Date: Jan 8th 2016

Certificate of Analysis

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Product Name: **AM 92016 hydrochloride** **Catalog No.: 0876** **Batch No.: 4**

CAS Number: 133229-11-5

IUPAC Name: 1-(4-Methanesulfonamidophenoxy)-3-(*N*-methyl-3,4-dichlorophenylethylamino)-2-propanol hydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_{19}H_{24}Cl_2N_2O_4S.HCl.¼H_2O$

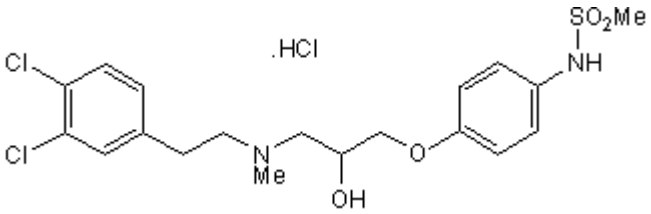
Batch Molecular Weight: 488.34

Physical Appearance: White solid

Solubility: ethanol to 100 mM
water to 50 mM
DMSO to 100 mM

Storage: Desiccate at RT

Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.1 (Dichloromethane:Methanol [95:5])

HPLC: Shows >98.1% purity

^{1}H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	46.73	5.26	5.74
Found	46.73	5.34	5.79

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Description:

A specific blocker of the time dependent delayed rectifier potassium current, devoid of any β-adrenoceptor blocking activity. Exhibits proarrhythmic and prohypertensive activity in vivo.

Physical and Chemical Properties:

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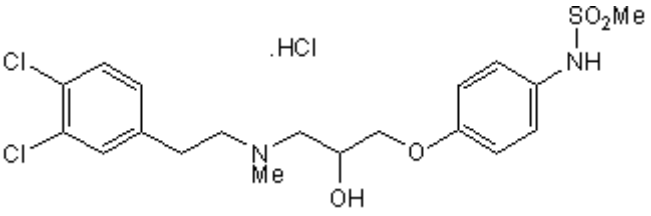
Batch Molecular Weight: 488.34

Physical Appearance: White solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Desiccate at RT

Solubility & Usage Info:

ethanol to 100 mM
water to 50 mM
DMSO to 100 mM

CAUTION - This product is hygroscopic and we recommend that it is desiccated upon arrival. Solutions should be made up as soon as the vial is opened.

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:

Conners *et al* (1992) Actions and mechanisms of action of novel analogues of sotalol on guinea-pig and rabbit ventricular cells. Br.J.Pharmacol. ***106*** 958. PMID: 1393293.

Hagerty *et al* (1996) The *in vivo* cardiovascular effects of a putative class III anti-arrhythmic drug, AM 92016. J.Pharm.Pharmacol. ***48*** 417. PMID: 8794994.

Lei and Brown (1998) Inhibition by compound II, a sotalol analogue, of delayed rectifier current (i_K) in rabbit sino-atrial node cells. Naunyn Schmiedebergs Arch.Pharmacol. ***357*** 260. PMID: 9550297.

Palen *et al* (2005) Role of SHP-1, Kv1.2 and cGMP in nitric oxide-induced ERK1/2 MAP kinase dephosphorylation in rat vascular smooth muscle cells. Cardiovasc.Res. ***68*** 268. PMID: 15967421.

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