

Certificate of Analysis

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Product Name: BMY 7378 dihydrochloride

Catalog No.: 1006

Batch No.: 1

CAS Number: 21102-95-4

IUPAC Name: 8-[2-[4-(methoxyphenyl)-1-piperazinyl]ethyl]-8-azaspiro[4.5]decane-7,9-dione dihydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₂H₃₁N₃O₃·2HCl

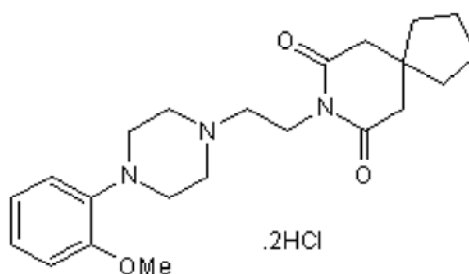
Batch Molecular Weight: 458.42

Physical Appearance: White solid

Solubility: water to 100 mM

Storage: Store at RT

Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.5 (Ethyl acetate)

Melting Point: Between 196 - 198°C

¹H NMR: Consistent with structure

Microanalysis:

	Carbon Hydrogen Nitrogen		
Theoretical	57.64	7.26	9.17
Found	57.84	7.4	9.14

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

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Product Information

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Description:

5-HT_{1A} partial agonist and high affinity α_{1D} adrenoceptor antagonist (K_i values are 2, 800 and 600 nM at cloned rat α_{1D} , rat α_{1A} and hamster α_{1B} receptors, respectively).

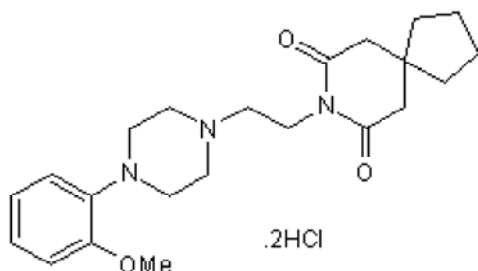
Physical and Chemical Properties:

Batch Molecular Formula: C₂₂H₃₁N₃O₃.2HCl

Batch Molecular Weight: 458.42

Physical Appearance: White solid

Batch Molecular Structure:



Storage: Store at RT

Solubility & Usage Info:

water 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:

Yang and Endoh (1997) Pharmacological evidence for β_{1D} -adrenoceptors in the rabbit ventricular myocardium: analysis with BMY 7378. *Br.J.Pharmacol.* **122** 1541. PMID: 9422797.

Piasek et al (1995) The specific contribution of the novel alpha-1D adrenoceptor to the contraction of vascular smooth muscle. *J.Pharmacol.Exp.Ther.* **275** 1583. PMID: 8531132.

Gruel and Glaser (1992) The putative 5-HT_{1A} receptor antagonists NAN-190 and BMY 7378 are partial agonists in the rat dorsal raphe nucleus *in vitro*. *Eur.J.Pharmacol.* **211** 211. PMID: 1535319.

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