

Certificate of Analysis

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Product Name: WB 4101 hydrochloride

Catalog No.: 0946

Batch No.: 7

CAS Number: 2170-58-3

IUPAC Name: 2-(2,6-Dimethoxyphenoxyethyl)aminomethyl-1,4-benzodioxane hydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₉H₂₃NO₅.HCl

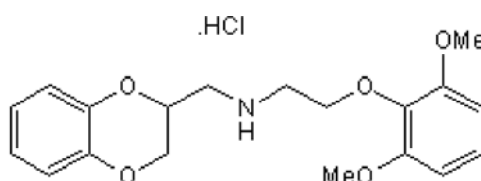
Batch Molecular Weight: 381.86

Physical Appearance: White solid

Solubility: water to 50 mM

Storage: Store at RT

Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.7 (Pyridine:Acetic acid:Water:Butanol [3:8:11:33])

HPLC: Shows >99.6% purity

¹H NMR: Consistent with structure

Microanalysis:

	Carbon Hydrogen Nitrogen		
Theoretical	59.76	6.33	3.67
Found	59.59	6.36	3.66

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

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Product Information

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Batch No.: 7

CAS Number: 2170-58-3

IUPAC Name: 2-(2,6-Dimethoxyphenoxyethyl)aminomethyl-1,4-benzodioxane hydrochloride

Description:

α_{1A} -adrenergic selective antagonist.

Physical and Chemical Properties:

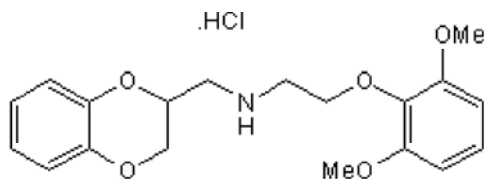
Batch Molecular Formula: C₁₉H₂₃NO₅.HCl

Batch Molecular Weight: 381.86

Physical Appearance: White solid

Minimum Purity: ≥99%

Batch Molecular Structure:



Storage: Store at RT

Solubility & Usage Info:

water to 50 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:

Heible *et al* (1995) α and β -adrenoceptors: from the gene to the clinic. 1. Molecular biology and adrenoceptor subclassification. *J.Med.Chem.* **38** 3415. PMID: 7658428.

Morrow and Creese (1986) Characterisation of α_1 -adrenergic receptor subtypes in rat brain: a re-evaluation of ³H-WB 4101 and ³H-prazosin binding. *Mol.Pharmacol.* **29** 321. PMID: 3010073.

Green *et al* (1969) The synthesis and pharmacological properties of a series of 2-substituted aminomethyl-1,4-benzodioxanes. *J.Med.Chem.* **12** 326. PMID: 5791620.

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