

Certificate of Analysis

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Product Name: Zimelidine dihydrochloride

Catalog No.: 1767

Batch No.: 1

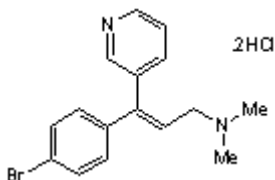
CAS Number: 60525-15-7

EC Number: 262-279-7

IUPAC Name: (2Z)-3-(4-Bromophenyl)-N,N-dimethyl-3-(3-pyridinyl)-2-propen-1-amine dihydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₆H₁₇BrN₂ 2HCl.¼H₂O
Batch Molecular Weight: 394.65
Physical Appearance: White solid
Solubility: water to 100 mM
 phosphate buffered saline to 100 mM
Storage: Desiccate at RT
Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.8 (Dichloromethane:Methanol:Ammonia soln. [9:1:0.1])
Melting Point: Between 186 - 190°C
HPLC: Shows 98.5% purity
¹H NMR: Consistent with structure
Microanalysis:

	Carbon	Hydrogen	Nitrogen	Chlorine
Theoretical	48.69	4.98	7.1	17.97
Found	48.39	5.3	6.98	17.75

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

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Description:

5-HT re-uptake inhibitor; selective over noradrenalin and dopamine uptake (IC₅₀ values are 0.33, 8.2 and 12 μM respectively). Modulates nociception and induces hyperglycemia in vivo, and is an orally active antidepressant.

Physical and Chemical Properties:

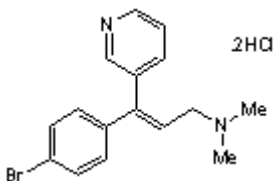
Batch Molecular Formula: C₁₆H₁₇BrN₂·2HCl·¼H₂O

Batch Molecular Weight: 394.65

Physical Appearance: White solid

Minimum Purity: >98%

Batch Molecular Structure:



References:

Ogren *et al* (1981) The pharmacology of zimelidine: a 5-HT selective reuptake inhibitor. *Acta Psychiatr.Scand.Suppl.* **290** 127. PMID: 6452789.

Fasmer *et al* (1987) Changes in nociception after acute and chronic administration of zimelidine: different effects in the formalin test and substance P behavioural assay. *Neuropharmacology* **26** 309. PMID: 2438584.

Sugimoto *et al* (1999) Involvement of serotonin in zimelidine-induced hyperglycemia in mice. *Biol.Pharm.Bull.* **22** 1240. PMID: 10598036.

Storage: Desiccate at RT

Solubility & Usage Info:

water to 100 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.

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