

Certificate of Analysis

Product Name: Zolantidine dimaleate

Catalog No.: 1070

Batch No.: 2

CAS Number: 104076-39-3

IUPAC Name: *N*-[3-[3-(1-Piperidinylmethyl)phenoxy]propyl]-2-benzothiazolamine dimaleate

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₂H₂₇N₃OS.2C₄H₄O₄

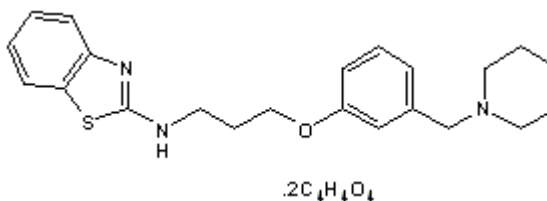
Batch Molecular Weight: 613.68

Physical Appearance: White solid

Solubility: water to 100 mM
DMSO to 100 mM

Storage: Desiccate at +4°C

Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.35 (Dichloromethane:Methanol [9:1])

Melting Point: Between 114 - 115°C(Dec)

¹H NMR: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen		
Theoretical	58.72	5.75	6.85	0	0
Found	58.69	5.8	6.78	0	0

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Description:

A potent, selective and brain penetrating H₂ receptor antagonist.

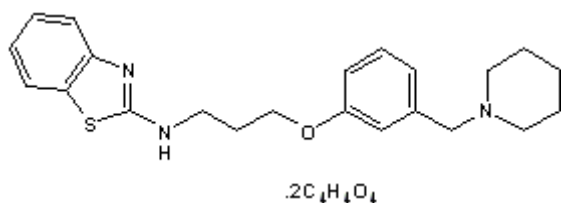
Physical and Chemical Properties:

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Storage: Desiccate at +4°C

Solubility & Usage Info:

water to 100 mM

DMSO 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:

Calcutt et al (1988) Zolantidine (SK&F 95282) is a potent selective brain penetrating histamine H₂-receptor antagonist. *Br.J.Pharmacol.* **93** 69. PMID: 2894879.

Coruzzi et al (1994) Activity of the new histamine H₂-receptor antagonist zolantidine at cardiac and gastric H₂ receptors. *Pharmacology* **48** 69. PMID: 7907797.

Coruzzi et al (1996) Cardiac and gastric effects of histamine H₂ receptor antagonists: no evidence for a correlation between lipophilicity and receptor affinity. *Br.J.Pharmacol.* **118** 1813. PMID: 8842448.

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