

Certificate of Analysis

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Product Name: Tiotidine

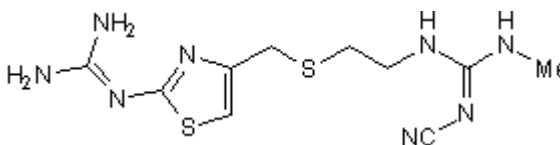
Catalog No.: 0826

Batch No.: 2

CAS Number: 69014-14-8

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₀H₁₆N₈S₂
Batch Molecular Weight: 312.41
Physical Appearance: White solid
Solubility: ethanol to 10 mM
DMSO to 100 mM
Storage: Store at RT
Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.39 (Ethyl acetate:Methanol [2:1])
Melting Point: At 166°C
HPLC: Shows 99.5% purity
¹H NMR: Consistent with structure
Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	38.44	5.16	35.87
Found	38.45	5.14	36.1

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

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Description:

Potent histamine H₂-receptor antagonist with negligible activity against H₁- and H₃- receptors.

Physical and Chemical Properties:

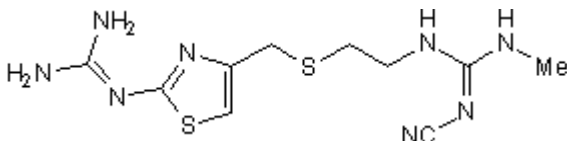
Batch Molecular Formula: C₁₀H₁₆N₈S₂

Batch Molecular Weight: 312.41

Physical Appearance: White solid

Minimum Purity: >99%

Batch Molecular Structure:



Storage: Store at RT

Solubility & Usage Info:

ethanol to 10 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:

Yellin *et al* (1979) ICI 125,211: A new gastric antisecretory agent acting on histamine H₂- receptors. *Life Sci.* **25** 2001. PMID: 43449.

Trzeciakowski and Levi (1980) The cardiac pharmacology of tiotidine (ICI 125,211): A new histamine H₂- receptor antagonist. *J.Pharmacol.Exp.Ther.* **214** 629. PMID: 6105207.

Hill (1990) Distribution, properties, and functional characteristics of three classes of histamine receptor. *Pharmacol.Rev.* **42** 45. PMID: 2164693.

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