

Certificate of Analysis

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Product Name: Cyproheptadine hydrochloride

Catalog No.: 0996

Batch No.: 2

CAS Number: 969-33-5

EC Number: 213-535-1

IUPAC Name: 4-(5*H*-Dibenzo[*a,d*]cyclohepten-5-ylidene)-1-methylpiperidine hydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₁H₂₁N.HCl.1½H₂O

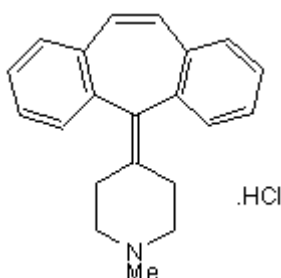
Batch Molecular Weight: 350.88

Physical Appearance: White solid

Solubility: DMSO to 100 mM

Storage: Store at RT

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.8% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

	Carbon	Hydrogen	Nitrogen
Theoretical	71.89	7.18	3.99
Found	71.93	7.24	4.02

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

Product Information

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Description:

Non-selective 5HT₂ antagonist, migraine prophylactic. Also SETD7/9 inhibitor (IC₅₀ = 1μM). Decreases expression and increases degradation of estrogen receptor (ER) α in breast tumor MCF7 cells. Inhibits growth of MCF7 xenografts in mice.

Physical and Chemical Properties:

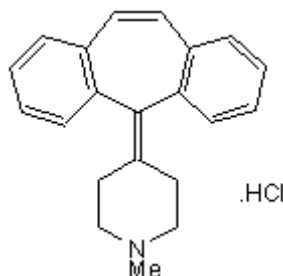
Batch Molecular Formula: C₂₁H₂₁N.HCl.1½H₂O

Batch Molecular Weight: 350.88

Physical Appearance: White solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Store at RT

Solubility & Usage Info:

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:

Takemoto *et al* (2016) Identification of cyproheptadine as an inhibitor of SET domain containing lysine methyltransferase 7/9 (Set7/9) that regulates estrogen-dependent transcription. *J.Med.Chem.* **59** 3650. PMID: 27088648.

Hoyer *et al* (1994) VII. International Union of Pharmacology classification of receptors for 5-hydroxytryptamine (serotonin). *Pharmacol.Rev.* **46** 157. PMID: 7938165.

Moran *et al* (1994) Inhibitory 5-hydroxytryptamine receptors involved in pressor effects obtained by stimulation of sympathetic outflow from spinal cord in pithed rats. *Br.J.Pharmacol.* **113** 1358. PMID: 7889292.

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