

Certificate of Analysis

Product Name: Ellipticine

CAS Number: 519-23-3

IUPAC Name: 5,11-Dimethyl-6*H*-pyrido[4,3-*b*]carbazole

Catalog No.: 3357

Batch No.: 1

EC Number: 208-264-0

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₇H₁₄N₂·0.8H₂O

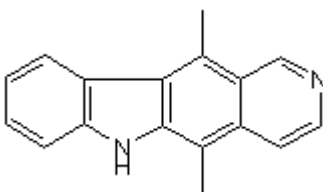
Batch Molecular Weight: 260.72

Physical Appearance: Yellow solid

Solubility: DMSO to 50 mM

Storage: Store at +4°C

Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.38 (Dichloromethane:Methanol:Ammonia soln. [95:5:0.1])

HPLC: Shows 97.7% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	78.05	6.05	10.71
Found	77.99	5.73	10.41

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

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Description:

Naturally occurring plant alkaloid with antitumor activity. DNA intercalating agent; blocks DNA topoisomerase II activity. Prevents p53 phosphorylation in lung cancer cells.

Physical and Chemical Properties:

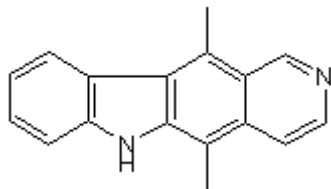
Batch Molecular Formula: C₁₇H₁₄N₂·0.8H₂O

Batch Molecular Weight: 260.72

Physical Appearance: Yellow solid

Minimum Purity: >97%

Batch Molecular Structure:



References:

Tewey *et al* (1984) Intercalative antitumor drugs interfere with the breakage-reunion reaction of mammalian DNA topoisomerase II. *J.Biol.Chem.* **259** 9182. PMID: 6086625.

Ohashi *et al* (1995) Inhibition of p53 protein phosphorylation by 9-hydroxyellipticine: a possible anticancer mechanism. *Jpn.J.Cancer Res.* **86** 819. PMID: 7591958.

Storage: Store at +4°C

Solubility & Usage Info:

DMSO 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.

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