

**Product Name:** Ellipticine

**Catalog No.:** 3357

**Batch No.:** 1

CAS Number: 519-23-3

EC Number: 208-264-0

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

**1. PHYSICAL AND CHEMICAL PROPERTIES**

**Batch Molecular Formula:** C<sub>17</sub>H<sub>14</sub>N<sub>2</sub>·0.8H<sub>2</sub>O

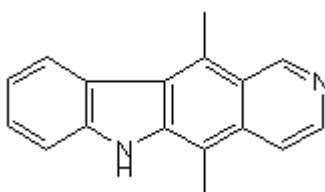
**Batch Molecular Weight:** 260.72

**Physical Appearance:** Yellow solid

**Solubility:** DMSO to 50 mM

**Storage:** Store at +4°C

**Batch Molecular Structure:**



**2. ANALYTICAL DATA**

**TLC:** R<sub>f</sub> = 0.38 (Dichloromethane:Methanol:Ammonia soln. [95:5:0.1])

**HPLC:** Shows 97.7% purity

**<sup>1</sup>H 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

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**Catalog No.:** 3357 **Batch No.:** 1

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

**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:**

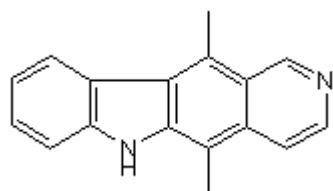
Batch Molecular Formula: C<sub>17</sub>H<sub>14</sub>N<sub>2</sub>O.8H<sub>2</sub>O

Batch Molecular Weight: 260.72

Physical Appearance: Yellow solid

**Minimum Purity:** >97%

**Batch Molecular Structure:**



**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.

**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.

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