### Product Information

**Product Name:** Camptothecin  
**Catalog No.:** 1100  
**Batch No.:** 2  
**CAS Number:** 7689-03-4  
**EC Number:** 444-280-6  
**IUPAC Name:** (S)-4-Ethyl-4-hydroxy-1H-pyrano-[3',4':6,7]indolizino[1,2-b]quinoline-3,14(4H,12H)-dione

### Physical and Chemical Properties

- **Batch Molecular Formula:** \(C_{20}H_{16}N_2O_4\)
- **Batch Molecular Weight:** 348.36
- **Physical Appearance:** Beige solid
- **Solubility:** DMSO to 5 mM
- **Storage:** Desiccate at +4°C

### Analytical Data

- **HPLC:** Shows 99.6% purity
- **\(^1H\) NMR:** Consistent with structure
- **Mass Spectrum:** Consistent with structure
- **Optical Rotation:** \([\alpha]_D = +40.6\) (Concentration = .25, Solvent = Chloroform/Methanol (8:2))
- **Microanalysis:**
  - **Theoretical:** Carbon 68.96, Hydrogen 4.63, Nitrogen 8.04
  - **Found:** Carbon 68.89, Hydrogen 4.75, Nitrogen 8.12

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*Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use*
### Product Information

**Product Name:** Camptothecin  
**Catalog No.:** 1100  
**Batch No.:** 2  
**EC Number:** 444-280-6

### Description:
Cytotoxic plant alkaloid with antitumor properties; prototypic DNA topoisomerase I inhibitor. Induces single strand DNA breaks and protein-DNA crosslinks.

### Physical and Chemical Properties:
- **Batch Molecular Formula:** C_{20}H_{19}N_{2}O_{4}
- **Batch Molecular Weight:** 348.36
- **Physical Appearance:** Beige solid
- **Minimum Purity:** >98%

### Storage:
Desiccate at +4°C

### Solubility & Usage Info:
DMSO to 5 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:
- Merck Index 12 1783.