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

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: \( \text{C}_{20}\text{H}_{16}\text{N}_{2}\text{O}_{4} \)
Batch Molecular Weight: 348.36
Physical Appearance: Beige solid
Solubility: DMSO to 5 mM
Storage: Desiccate at +4°C

Batch Molecular Structure:

![Batch Molecular Structure](image)

2. ANALYTICAL DATA

HPLC: Shows 98.9% purity
\(^1\)H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Optical Rotation: \([\alpha]_D = +40.6\) (Concentration = .25, Solvent = Chloroform/Methanol (8:2))
Microanalysis:

<table>
<thead>
<tr>
<th>Element</th>
<th>Theoretical</th>
<th>Found</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carbon</td>
<td>68.96</td>
<td>68.89</td>
</tr>
<tr>
<td>Hydrogen</td>
<td>4.63</td>
<td>4.75</td>
</tr>
<tr>
<td>Nitrogen</td>
<td>8.04</td>
<td>8.12</td>
</tr>
</tbody>
</table>

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use
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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_{16}N_{2}O_{4}
Batch Molecular Weight: 348.36
Physical Appearance: Beige solid
Minimum Purity: >98%

Batch Molecular Structure:

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.