

Product Name: CPT 11

Catalog No.: 2688

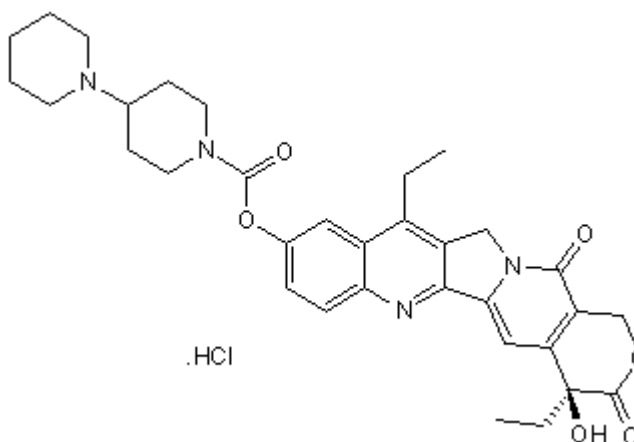
Batch No.: 2

CAS Number: 100286-90-6

IUPAC Name: (4*S*)-4,11-Diethyl-3,4,12,14-tetrahydro-4-hydroxy-3,14-dioxo-1*H*-pyrano[3',4':6,7]indolizino[1,2-*b*]quinolin-9-yl [1,4'-bipiperidine]-1'-carboxylic acid ester hydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₃₃H₃₈N₄O₆·HCl·3H₂O
Batch Molecular Weight: 677.19
Physical Appearance: Yellow solid
Solubility: water to 5 mM with gentle warming
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
Optical Rotation: [α]_D = +68.8 (Concentration = 1, Solvent = Water)
Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	58.53	6.7	8.27
Found	58.35	6.57	8.37

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

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Description:

Inhibitor of DNA topoisomerase I that displays antitumor activity against a range of tumor types. Active metabolite available (SN 38, Cat. No. 2684).

Physical and Chemical Properties:

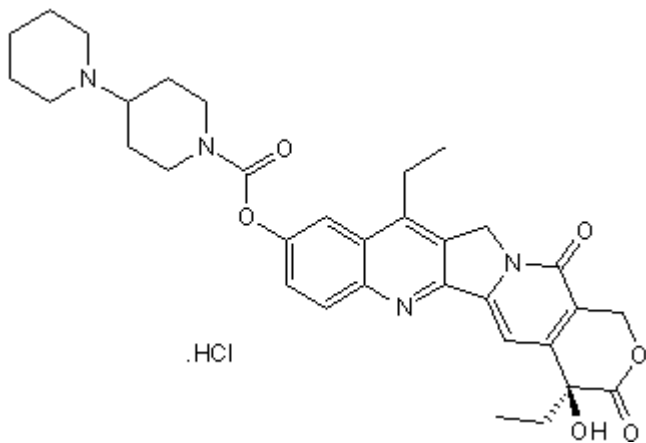
Batch Molecular Formula: C₃₃H₃₈N₄O₆.HCl.3H₂O

Batch Molecular Weight: 677.19

Physical Appearance: Yellow solid

Minimum Purity: >99%

Batch Molecular Structure:



Storage: Store at RT

Solubility & Usage Info:

water to 5 mM with gentle warming
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:

Kawato et al (1993) Inhibitory activity of camptothecin derivatives against acetylcholinesterase in dogs and their binding activity to acetylcholine receptors in rats. *J.Pharm.Pharmacol.* **45** 444. PMID: 8099964.

Vassal et al (1996) Therapeutic activity of CPT-11, a DNA topoisomerase I inhibitor against peripheral primitive neuroectodermal tumour and neuroblastoma xenografts. *Br.J.Cancer.* **74** 537. PMID: 8761367.

Morton et al (2005) Activation and antitumour activity of CPT-11 in plasma esterase-deficient mice. *Can.Chemother.Pharmacol.* **56** 629.

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