

Camptothecin Datasheet

4th Edition (Revised in July, 2016)

[Product Information]

Name: Camptothecin

Catalog No.: CFN97249

Cas No.: 7689-03-4

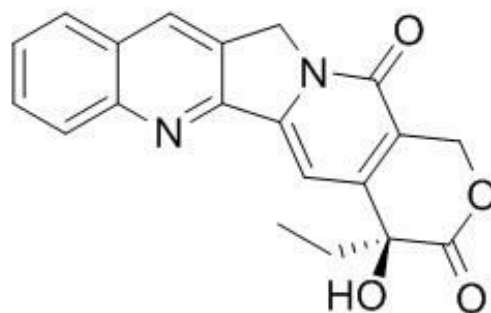
Purity: > 98%

M.F: C₂₀H₁₆N₂O₄

M.W: 348.4

Physical Description: Powder

Synonyms: (S)-4-Ethyl-4-hydroxy-1H-pyrano-[3',4':6,7]indolizino[1,2-b]quinoline-3,14(4H, 12H)-dione.



[Intended Use]

1. Reference standards;
2. Pharmacological research;
3. Synthetic precursor compounds;
4. Intermediates & Fine Chemicals;
5. Others.

[Source]

The barks of *Camptotheca acuminata*.

[Biological Activity or Inhibitors]

Camptothecin, isolated from *Camptotheca acuminata*, is a topoisomerase I inhibitor and a novel alkaloidal leukemia and tumor inhibitor.^[1,2]

Camptothecin, a cytotoxic drug, is a strong inhibitor of nucleic acid synthesis in mammalian cells and a potent inducer of strand breaks in chromosomal DNA. ^[3]

[Solvent]

Chloroform, Dichloromethane, Ethyl Acetate, DMSO, Acetone, etc.

[HPLC Method]^[4]

Mobile phase: Acetonitrile- 0.1 M Ammonium acetate buffer (pH 5.5)=28:72;

Flow rate: 1.0 ml/min;

Column temperature: Room Temperature;

The wave length of determination: 347 nm.

[Storage]

2-8°C, Protected from air and light, refrigerate or freeze.

[References]

[1] Pommier Y. *Nat. Rev. Cancer*, 2006, 6(10):789-802.

[2] Wall M E, Wani M C, Cook C E, *et al. J. Am. Chem .Soc.*, 2002, 88(16):3888-90.

[3] Hsiang Y H, Hertzberg R, Hecht S, *et al. J. Biol. Chem.*, 1985, 260(27):14873-8.

[4] Jeffrey G. Supko, Louis Malspeis. *J. Liq. Chromatogr.*, 1991, 14(9):1779-803.

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