

(S)-10-Hydroxycamptothecin Datasheet

4th Edition (Revised in July, 2016)

[Product Information]

Name: (S)-10-Hydroxycamptothecin

Catalog No.: CFN99735

Cas No.: 19685-09-7

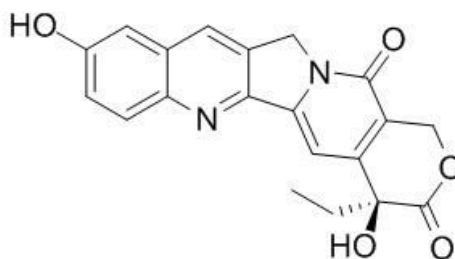
Purity: >=98%

M.F: C₂₀H₁₆N₂O₅

M.W: 364.35

Physical Description: Powder

Synonyms: (+/-)-4-ethyl-4,9-dihydroxy-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* Decne.

[Biological Activity or Inhibitors]

(S)-10-Hydroxycamptothecin (OPT), an analog of camptothecin (CPT), was found to inhibit the growth of the mouse hepatoma BW7756, when given at 1.0 mg/kg/day for 14 days; in spite of the narrow range of the effective dose of this drug against mouse hepatoma BW7756, the use of OPT in combination with other antitumor agents may be useful in primary hepatoma or liver metastases in view of its low toxicity towards host liver.^[1]

(S)-10-Hydroxycamptothecin, as an inhibitor of the growth of P388 leukemia in mice, is as potent as the parent compound camptothecin (CPT).^[2]

10-Hydroxycamptothecine can effectively prevent and reduce fibroblast proliferation and epidural scar adhesion after laminectomy in rats. ^[3]

[Solvent]

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

[HPLC Method]^[4]

Mobile phase: Acetonitrile-H₂O= 30:70 ;

Flow rate: 1.0 ml/min;

Column temperature: 30 °C;

The wave length of determination: 266 nm.

[Storage]

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

[References]

[1] Tsou K C, Xu B, Miller E E, *et al. Anticancer Res.*, 1981, 1(2):115-9.

[2] Creasey W A, Richards M, Gil D, *et al. Cancer Treatment Reports*, 1983, 67(2):179-82.

[3] Sun Y, Wang L, Sun S, *et al. Eur. J. Pharmacol.*, 2008, 593(1-3):44-8.

[4] Ma M F, Yu T, Dai S J, *et al. Journal of Forestry Research*, 2002, 13(2):144-6.

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