

## 10-Hydroxycamptothecin Datasheet

4<sup>th</sup> Edition (Revised in July, 2016)

### [ Product Information ]

**Name:** 10-Hydroxycamptothecin

**Catalog No.:** CFN99736

**Cas No.:** 64439-81-2

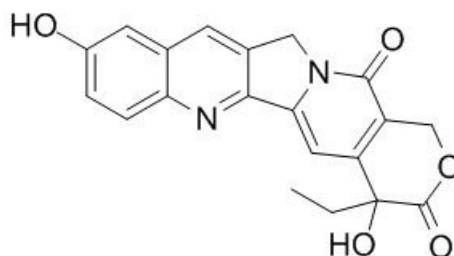
**Purity:** >=99%

**M.F:** C<sub>20</sub>H<sub>16</sub>N<sub>2</sub>O<sub>5</sub>

**M.W:** 364.35

**Physical Description:** Yellow 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. Cosmetic research;
5. Intermediates & Fine Chemicals;
6. Others.

### [ Source ]

The barks of *Camptotheca acuminata* Decne.

## **[ Biological Activity or Inhibitors ]**

10-Hydroxycamptothecin is an indole alkaloid isolated from a Chinese tree, *Camptotheca acuminata*, and has a wide spectrum of anticancer activity in vitro and in vivo mainly through inhibitory effects on topoisomerase I.<sup>[1]</sup>

10-Hydroxycamptothecine can prevent fibroblast proliferation and epidural scar adhesion after laminectomy in rats.<sup>[2]</sup>

10-Hydroxycamptothecin has antiangiogenic potential. <sup>[3]</sup>

## **[ Solvent ]**

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

## **[ HPLC Method ]<sup>[4]</sup>**

Mobile phase: Acetonitrile-H<sub>2</sub>O=30:70;

Flow rate: 1.0 ml/min;

Column temperature: Room Temperature;

The wave length of determination: 266 nm.

## **[ Storage ]**

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

## **[ References ]**

[1]Zhang R, Li Y, Cai Q, *et al. Cancer Chemoth. Pharm.*, 1998, 41(4):257-67.

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

[3] Xiao D, Tan W, Li M, *et al. Life Sci.*, 2001, 69(14):1619-28.

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

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