Web: www.taiclone.com
Tel: +886-2-2735-9682
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(±) -10-Hydroxycamptothecin

Catalog No: tcsc0008775

Available Sizes

Size: 25mg

Size: 50mg

Size: 100mg

Specifications

CAS No:
64439-81-2

Formula:
$C_{20}H_{16}N_2O_5$

Pathway:
Cell Cycle/DNA Damage

Target:
Topoisomerase

Purity / Grade:
>98%

Solubility:
DMSO: ≥ 37.5 mg/mL

Observed Molecular Weight:
364.35

Product Description

(±)-10-Hydroxycamptothecin, an indole alkaloid isolated from Camptotheca acuminate, inhibits the activity of **topoisomerase I** and has a broad spectrum of anticancer activity.

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IC50 & Target: Topoisomerase I[1]

In Vitro: (±)-10-Hydroxycamptothecin (10-OH-camptothecin) is an inhibitor of topo I[1]. (±)-10-Hydroxycamptothecin (10-HCPT, 5-20 nM) markedly inhibits the proliferation of Colo 205 cells in a dose-dependent manner. (±)-10-Hydroxycamptothecin (5-20 nM) arrests Colo 205 cells in the G2 phase of the cell cycle and triggers apoptosis through a caspase-3-dependent pathway[2]. (±)-10-Hydroxycamptothecin (HPT, 0.01-10 μg/mL) causes cell shrinage, nuclear fragmentation and condensed chromosomes and induces apoptosis of human urinary bladder cancer cell line (T24)[3].

In Vivo: (±)-10-Hydroxycamptothecin (10-HCPT, 2.5-7.5 mg/kg/2 days, p.o.) significantly suppresss tumor growth in mouse xenografts. (±)-10-Hydroxycamptothecin (1-7.5 mg/kg, p.o., once per 2 or 4 days) causes no obvious acute toxicity in nude mice[2].