

(±) -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: \geq 37.5 mg/mL

Observed Molecular Weight:

364.35

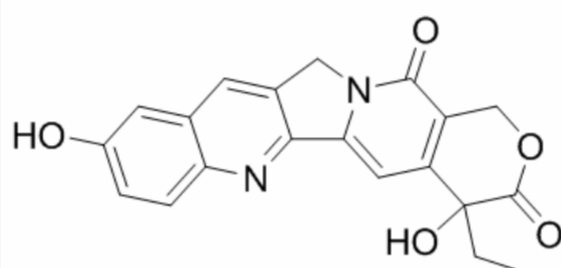
Product Description

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

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 shrinkage, 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].



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