

# (±) -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

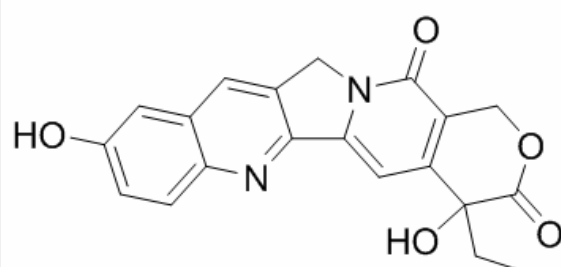
## Product Description

(±)-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<sup>[1]</sup>

**In Vitro:** (±)-10-Hydroxycamptothecin (10-OH-camptothecin) is an inhibitor of topo I<sup>[1]</sup>. (±)-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<sup>[2]</sup>. (±)-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)<sup>[3]</sup>.

**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<sup>[2]</sup>.



All products are for RESEARCH USE ONLY. Not for diagnostic & therapeutic purposes!