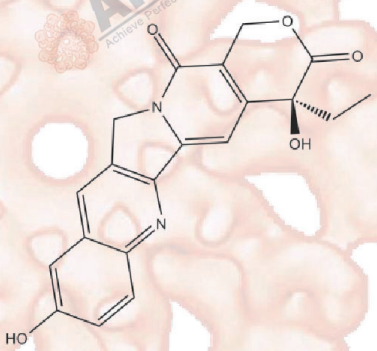
Product Data Sheet

(S)-10-Hydroxycamptothecin

Cat. No.: B4745
CAS No.: 19685-09-7
Formula: C20H16N2O5
M.Wt: 364.35
Synonyms:
Target: DNA Damage/DNA Repair
Pathway: Topoisomerase
Storage: Desiccate at -20°C



Solvent & Solubility

In Vitro

≥23.8 mg/mL in DMSO with gentle warming; insoluble in EtOH; insoluble in H2O

Preparing Stock Solutions

Concentration \ Mass / Solvent	1mg	5mg	10mg
1 mM	2.7446 mL	13.7231 mL	27.4461 mL
5 mM	0.5489 mL	2.7446 mL	5.4892 mL
10 mM	0.2745 mL	1.3723 mL	2.7446 mL

Please refer to the solubility information to select the appropriate solvent.

Biological Activity

Shortsummary	inhibitor of topoisomerase I
IC_{50} & Target	

In Vitro

Cell Viability Assay

Cell Line:	Colo 205 cells
Preparation method:	Soluble in DMSO > 6.275mg/mL. General tips for obtaining a higher concentration: Please warm the tube at 37°C for 10 minutes and/or shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.
Reacting conditions:	5, 10, 15, 20nM for 24, 48, 72, 96, 120hr

	Applications:	10-Hydroxycamptothecin inhibited the cell growth and reduced the cell viability of human colon cancer cell line Colo 205. The agent disturbed the cell cycle distribution which dramatically induced the increase of cell population in the G2/M phase and a decrease in the G0/G1 phase.
In Vivo	**Animal experiment**	
	Animal models:	BALB/c-nu mice with Colo 205 cells xenograft tumor
	Dosage form:	Dissolved in propylene glycol; 1, 2.5, 5, 7.5 mg/kg per two or four days for 25days; oral administration
	Applications:	The results of this study suggested that a relatively low dose of 10-Hydroxycamptothecin was able to inhibit the growth of colon cancer, with no acute toxicity observed.
	Other notes:	Please test the solubility of all compounds indoor, and the actual solubility may slightly differ with the theoretical value. This is caused by an experimental system error and it is normal.

Product Citations

See more customer validations on www.apexbt.com.

References

[1]. Ping YH1, Lee HC, et al, Anticancer effects of low-dose 10-hydroxycamptothecin in human colon cancer. Oncol Rep. 2006 May;15(5):1273-9.

Caution

FOR RESEARCH PURPOSES ONLY.

NOT FOR HUMAN, VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

Specific storage and handling information for each product is indicated on the product datasheet. Most APExBIO products are stable under the recommended conditions. Products are sometimes shipped at a temperature that differs from the recommended storage temperature. Shortterm storage of many products are stable in the short-term at temperatures that differ from that required for long-term storage. We ensure that the product is shipped under conditions that will maintain the quality of the reagents. Upon receipt of the product, follow the storage recommendations on the product data sheet.

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