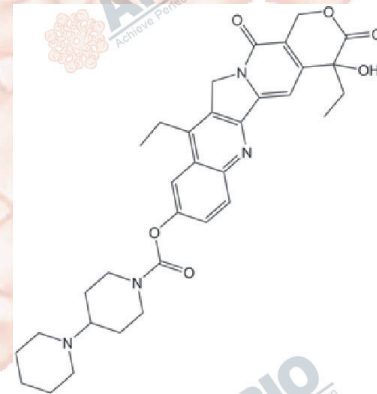


Product Data Sheet

Irinotecan

Cat. No.:	A5133
CAS No.:	97682-44-5
Formula:	C33H38N4O6
M.Wt:	586.68
Synonyms:	
Target:	DNA Damage/DNA Repair
Pathway:	Topoisomerase
Storage:	Store at -20°C



Solvent & Solubility

insoluble in H₂O; ≥11.4 mg/mL in DMSO; ≥4.9 mg/mL in EtOH

In Vitro	Preparing Stock Solutions	Mass			
		Solvent	1mg	5mg	10mg
		Concentration			
		1 mM	1.7045 mL	8.5225 mL	17.0451 mL
		5 mM	0.3409 mL	1.7045 mL	3.4090 mL
		10 mM	0.1705 mL	0.8523 mL	1.7045 mL

Please refer to the solubility information to select the appropriate solvent

Biological Activity

Shortsummary	Topoisomerase I inhibitor	
IC ₅₀ & Target		
In Vitro	Cell Viability Assay	
	Cell Line:	HT29, NMG64/84, COLO-357, MIA PaCa-2 and PANC-1 cells
	Preparation method:	The solubility of this compound in DMSO is >29.4mg/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:	0.1-1000 µg/ml, 30 min

	Applications:	Irinotecan displayed concentration- and time-dependent cytotoxic effects in all tested cell lines. In COLO-357, MIA PaCa-2 and PANC-1 cells, irinotecan increased cell number in G0/G1 and decreased cell number in S- and G2-phase. Low concentration of irinotecan increased cell number in G2-phase in HT29 and NMG 64/84.
In Vivo	Animal experiment	
	Animal models:	ICR male mice
	Dosage form:	Intraperitoneal injection, 100 mg/kg
	Applications:	The time course of body weight change after Irinotecan (100 mg/kg i.p.) injection showed a significant dosing time-dependent difference (P
	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]. HOFMANN C, BUTTENSCHOEN K, STRAETER J, et al. Pre-clinical evaluation of the activity of irinotecan as a basis for regional chemotherapy[J]. Anticancer research, 2005, 25(2A): 795-804.
- [2]. Ohdo S, Makinosumi T, Ishizaki T, et al. Cell cycle-dependent chronotoxicity of irinotecan hydrochloride in mice[J]. Journal of Pharmacology and Experimental Therapeutics, 1997, 283(3): 1383-1388.

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 APEX BIO products are stable under the recommended conditions. Products are sometimes shipped at a temperature that differs from the recommended storage temperature. Short-term 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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