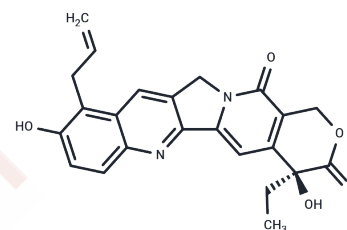


## Chimmitecan

## Chemical Properties

CAS No. :	185425-25-6
Formula:	C <sub>23</sub> H <sub>20</sub> N <sub>2</sub> O <sub>5</sub>
Molecular Weight:	404.42
Storage:	Powder: -20°C for 3 years   In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



## Biological Description

Description	Chimmitecan ((S)-9-Allyl-10-hydroxycamptothecin) is a potent topoisomerase I inhibitor with exceptional in vitro and in vivo activity.
Targets(IC50)	Topoisomerase
In vitro	Chimmitecan was highly cytotoxic (IC50s in the nanomolar range) to a wide variety of tumor cells, including leukemia, lung cancer, gastric cancer, hepatocellular cancer, colon cancer, breast cancer, ovarian cancer, and cervical cancer, and rhabdomyosarcoma cells[1].
In vivo	Chimmitecan (i.v. administration, twice for HCT-116 and thrice for the other tumors per week) caused a dramatic and dose-dependent suppression of tumor growth in all four tumor models. At a dosage of 15 mg/kg, the T/C (%) values were 17.6% (HCT-116), 24.2% (MDA-MB-435), 28.2% (BEL-7402), and 23.0% (A549). when given thrice per week for 2 weeks, chimmitecan (orally administration) inhibited the growth of the A549 xenograft at dosages as low as 4.5 mg/kg, and significant antitumor activity was observed at a dosage of 9 mg/kg[1].

## Solubility Information

Solubility	DMSO: 4.05 mg/mL (10.01 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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### Preparing Stock Solutions

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	1mg	5mg	10mg
1 mM	2.4727 mL	12.3634 mL	24.7268 mL
5 mM	0.4945 mL	2.4727 mL	4.9454 mL
10 mM	0.2473 mL	1.2363 mL	2.4727 mL
50 mM	0.0495 mL	0.2473 mL	0.4945 mL

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Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

### Reference

Huang M, et al. Chimmitecan, a novel 9-substituted camptothecin, with improved anticancer pharmacologic profiles in vitro and in vivo. Clin Cancer Res. 2007 Feb 15;13(4):1298-307.

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