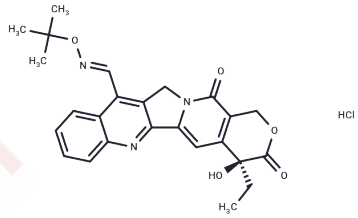
Data Sheet (Cat.No.T21319L)

TargetMol

Gimatecan HCl

Chemical Properties



CAS No. :

Formula: C25H26ClN3O5

Molecular Weight: 483.94

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	Gimatecan HCl (ST1481 HCL) is a potent topoisomerase I inhibitor. Gimatecan is an orally bioavailable camptothecin analogue with antitumor activity.
Targets(IC50)	Topoisomerase
In vitro	Gimatecan HCl (3 to 300 ng/mL) significantly inhibits the growth of human bladder cancer models (HT1376 and MCR), thus reflecting antiproliferative potency. Gimatecan HCl causes a persistent S-phase arrest At 0.003 μg/mL and the number of S-phase cells increased after treatment with a higher concentration (0.03 μg/mL)[1].
In vivo	Gimatecan HCl (2 mg/kg; treatment per os, every fourth day for four times) is effective for inhibiting tumor growth [1].

Solubility Information

Solubility	DMSO: 4.84 mg/mL (10 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.0664 mL	10.3319 mL	20.6637 mL
5 mM	0.4133 mL	2.0664 mL	4.1327 mL
10 mM	0.2066 mL	1.0332 mL	2.0664 mL
50 mM	0.0413 mL	0.2066 mL	0.4133 mL

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

Paola Ulivi, et al. Cellular Basis of Antiproliferative and Antitumor Activity of the Novel Camptothecin Derivative, Gimatecan, in Bladder Carcinoma Models. Neoplasia. 2005 Feb;7(2):152-61.