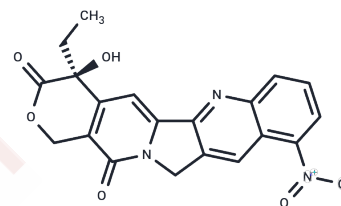


Rubitecan

Chemical Properties

CAS No. :	91421-42-0
Formula:	C ₂₀ H ₁₅ N ₃ O ₆
Molecular Weight:	393.35
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	Rubitecan (9-Nitrocamptothecin) is a DNA topoisomerase I inhibitor. It inhibits DNA topoisomerase I and increases the fraction of supercoiled DNA in a cell-free assay in a concentration-dependent manner. Rubitecan is a semisynthetic agent related to camptothecin with potent antitumor and antiviral properties.
Targets(IC50)	Topoisomerase

Solubility Information

Solubility	DMSO: 50 mg/mL (127.11 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 4 mg/mL (10.17 mM), Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.5423 mL	12.7113 mL	25.4227 mL
5 mM	0.5085 mL	2.5423 mL	5.0845 mL
10 mM	0.2542 mL	1.2711 mL	2.5423 mL
50 mM	0.0508 mL	0.2542 mL	0.5085 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

Sands H , Mishra A , Stoeckler J D , et al. Preclinical activity of an i.v. formulation of rubitecan in IDD-P? against human solid tumor xenografts[J]. *Anti-Cancer Drugs*, 2002, 13(9):965-975.

Giovanella B C , Stehlin J S , Hinz H R , et al. Preclinical evaluation of the anticancer activity and toxicity of 9-nitro-20(S)-camptothecin (Rubitecan)[J]. *International Journal of Oncology*, 2002, 20(1):81-88.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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