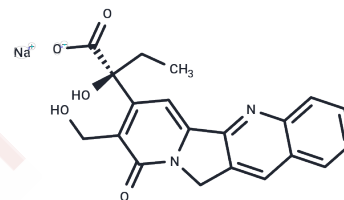


Sodium Camptothecin

Chemical Properties

CAS No. :	25387-67-1
Formula:	C ₂₀ H ₁₈ N ₂ NaO ₅
Molecular Weight:	389.36
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



Biological Description

Description	Sodium Camptothecin is a plant alkaloid with antitumor activity. Sodium Camptothecin is a reversible RNA synthesis inhibitor. Sodium Camptothecin is an effective adenovirus replication inhibitor. Sodium Camptothecin inhibits DNA synthesis and causes breaks in intracellular preformed viral DNA.
Targets(IC50)	DNA/RNA Synthesis
In vitro	Sodium Camptothecin (5 μM; 10 min) significantly inhibits heterogeneously sedimenting nuclear RNA (hnRNA) synthesis and disrupts ribosomal precursor RNA processing, allowing conversion of 45S RNA to 32S RNA but blocking the conversion of 32S RNA to 28S RNA [1].

Solubility Information

Solubility	DMSO: 40 mg/mL (102.73 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.5683 mL	12.8416 mL	25.6832 mL
5 mM	0.5137 mL	2.5683 mL	5.1366 mL
10 mM	0.2568 mL	1.2842 mL	2.5683 mL
50 mM	0.0514 mL	0.2568 mL	0.5137 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

R S Wu, et al. Ribosome formation is blocked by camptothecin, a reversible inhibitor of RNA synthesis. Proc Natl Acad Sci U S A. 1971 Dec;68(12):3009-14.

M S Horwitz, et al. Camptothecin: mechanism of inhibition of adenovirus formation. Virology. 1972 Jun;48(3):690-8

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