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Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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See the following pages for more information!



Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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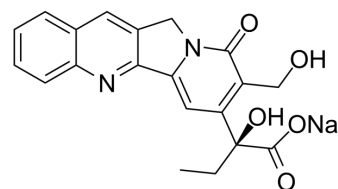
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Sodium Camptothecin

Cat. No.:	HY-N8533
CAS No.:	25387-67-1
Molecular Formula:	C ₂₀ H ₁₇ N ₂ NaO ₅
Molecular Weight:	388.35
Target:	DNA/RNA Synthesis
Pathway:	Cell Cycle/DNA Damage
Storage:	4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



SOLVENT & SOLUBILITY

In Vitro

H₂O : 50 mg/mL (128.75 mM; Need ultrasonic)
DMSO : 25 mg/mL (64.37 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg
		Concentration	1 mg	5 mg	10 mg
	1 mM		2.5750 mL	12.8750 mL	25.7500 mL
	5 mM		0.5150 mL	2.5750 mL	5.1500 mL
	10 mM		0.2575 mL	1.2875 mL	2.5750 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

Sodium Camptothecin is a plant alkaloid, with antitumor activity. Sodium Camptothecin is a reversible inhibitor of RNA synthesis. Sodium Camptothecin is an effective inhibitor of adenovirus replication. Sodium Camptothecin inhibits DNA synthesis and causes breaks in intracellular preformed viral DNA^{[1][2]}.

In Vitro

Sodium Camptothecin (5 μM; 10 min) causes a severe inhibition of heterogeneously sedimenting nuclear RNA (HnRNA) synthesis^[1].
Sodium Camptothecin also blocks a specific step in the processing of ribosomal precursor RNA, allowing the conversion of 45S RNA to 32S RNA, but inhibiting the conversion of 32S RNA to 28S RNA^[1].
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. 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.

Caution: Product has not been fully validated for medical applications. For research use only.

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