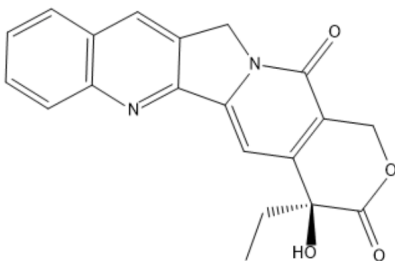


Certificate of Analysis

Catalog Number	
Product Name	Camptothecin

Physical and Chemical Properties

CAS No.	7689-03-4
Chemical Formula	C ₂₀ H ₁₆ N ₂ O ₄
Molecular Weight	348.35
Solubility	DMSO: 6.25 mg/mL (17.94 mM, Need ultrasonic)
Storage	Powder: -20°C for 2 years In solvent: -80°C for 1 year
Chemical Structure OR Tested Image	

Product Information

Description	<p>Camptothecin (NSC-100880, CPT, Campathecine, (S)-(+)-Camptothecin) is a specific inhibitor of DNA topoisomerase I (Topo I) with an IC₅₀ of 0.68 μM. Camptothecin induces apoptosis in cancer cells through the microRNA-125b-mediated mitochondrial signaling pathway to induce apoptosis.</p>
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Targets&IC50	Topoisomerase I:679 nM (IC50): Camptothecins::
In vitro	High TOP1 enzymatic activity MCF7 (Luminal subtype) and HCC1419 (HER2 subtype) show high sensitivity toward Camptothecin (0.1 μ M to 5 μ M; 72 hours) treatment, exhibiting the IC50 values of 0.089 μ M and 0.067 μ M, respectively. Camptothecin (0.5 μ M; 6 and 24 hours) reduces desferrioxamine-activated VEGF expression. Camptothecin (0.5 μ M; 8 to 24 hours) strongly prevents the desferrioxamine-dependent HIF-1a accumulation.
In vivo	Camptothecin (2 mg/kg every other day) treats mice, has developed numerous pulmonary metastases. Treatment with both kinase inhibitor of nuclear factor-kappaB-1 (KINK-1) and Camptothecin led to a statistically significant reduction in the number of pulmonary metastases.

Analytical Data

HPLC	Shows Min >99% purity
H-NMR	Consistent with structure
Stability and Solubility Advice	Information on product stability, especially in solution, has rarely been reported and in most cases we can only provide a general guideline. We recommend that once the stock solution has been prepared, it be stored in equal quantities in sealed vials and used within 1 month. Avoid repeated freezing and thawing cycles. Storage conditions for some special products should be referred to their storage details.

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