Purdue Bioscience

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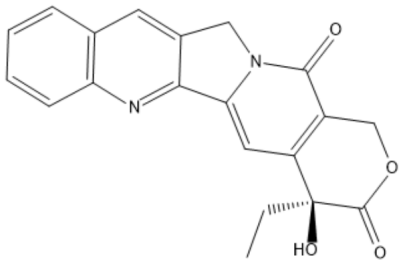
Data Sheet

Product Information

Catalog Number	
Product Name	Camptothecin
Description	Camptothecin (NSC-100880, CPT, Campathecin, (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.
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 μM to 5 μM; 72 hours) treatment, exhibiting the IC50 values of 0.089 μM and 0.067 μM, respectively.Camptothecin (0.5 μM; 6 and 24 hours) reduces desferrioxamine-activated VEGF expression.Camptothecin (0.5 μM; 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.
CAS No.	7689-03-4
Chemical Formula	C20H16N2O4
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	

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