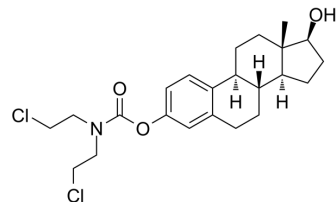


Estramustine

Cat. No.:	HY-103711
CAS No.:	2998-57-4
Molecular Formula:	C ₂₃ H ₃₁ Cl ₂ NO ₃
Molecular Weight:	440.4
Target:	Microtubule/Tubulin
Pathway:	Cell Cycle/DNA Damage; Cytoskeleton
Storage:	4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (227.07 mM; Need ultrasonic)						
	Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg	
				1 mM	2.2707 mL	11.3533 mL	22.7066 mL
				5 mM	0.4541 mL	2.2707 mL	4.5413 mL
				10 mM	0.2271 mL	1.1353 mL	2.2707 mL
Please refer to the solubility information to select the appropriate solvent.							
In Vivo	<ol style="list-style-type: none"> Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (5.68 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (5.68 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (5.68 mM); Clear solution 						

BIOLOGICAL ACTIVITY

Description	Estramustine is an antineoplastic agent. Estramustine depolymerizes microtubules by binding to tubulin 1, exhibits antimitotic activity with an IC ₅₀ value of ~16 μM for mitosis of DU 145 cells. Estramustine blocks cells at mitosis in prostate tumor xenografts ^[1] .
IC ₅₀ & Target	Tubulin 1 ^[1]

REFERENCES

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

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