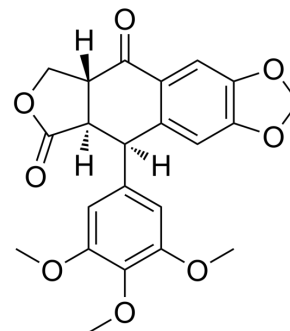


Podophyllotoxone

Cat. No.:	HY-N2415
CAS No.:	477-49-6
Molecular Formula:	C ₂₂ H ₂₀ O ₈
Molecular Weight:	412.39
Target:	Microtubule/Tubulin
Pathway:	Cell Cycle/DNA Damage; Cytoskeleton
Storage:	4°C, sealed storage, away from moisture and light * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light)



SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (242.49 mM; Need ultrasonic)				
		Solvent Concentration	Mass		
	Preparing Stock Solutions			1 mg	5 mg
		1 mM		2.4249 mL	12.1244 mL
		5 mM		0.4850 mL	2.4249 mL
	10 mM		0.2425 mL	1.2124 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 (6.06 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (6.06 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (6.06 mM); Clear solution 				

BIOLOGICAL ACTIVITY

Description	Podophyllotoxone is isolated from the roots of <i>Dyosma versipellis</i> and has anti-cancer activities. Podophyllotoxone is able to inhibit the tubulin polymerization ^[1] .
IC₅₀ & Target	Microtubule/Tubulin ^[1]
In Vitro	Podophyllotoxone inhibits human prostate cancer cells PC3 and DU145 growth with IC ₅₀ values of 14.7 and 20.6 μM ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Juan Li , et al. Absolute Configuration of Podophyllotoxone and Its Inhibitory Activity Against Human Prostate Cancer Cells. Chin J Nat Med. 2015 Jan;13(1):59-64.

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

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