Podofilox

Cat. No.:	HY-15552				
CAS No.:	518-28-5				
Molecular Formula:	C ₂₂ H ₂₂ O ₈				
Molecular Weight:	414.41				
Target:	Microtubule/Tubulin				
Pathway:	Cell Cycle/DNA Damage; Cytoskeleton				
Storage:	Powder	-20°C	3 years		
		4°C	2 years		
	In solvent	-80°C	2 years		
		-20°C	1 year		

®

MedChemExpress

SOLVENT & SOLUBILITY

Preparing Stock Solutions		Mass Solvent Concentration	1 mg	5 mg	10 mg	
	1 mM	2.4131 mL	12.0653 mL	24.1307 ml		
		5 mM	0.4826 mL	2.4131 mL	4.8261 mL	
		10 mM	0.2413 mL	1.2065 mL	2.4131 mL	
	Please refer to the so	lubility information to select the ap	propriate solvent.			
vo		one by one: 10% DMSO >> 40% PE ng/mL (3.02 mM); Clear solution	G300 >> 5% Tween-8	0 >> 45% saline		
Solubility:≥1.25 r 3. Add each solvent	t one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) mg/mL (3.02 mM); Clear solution					
	one by one: 10% DMSO >> 90% corn oil ng/mL (3.02 mM); Clear solution					

BIOLOGICAL ACTIVITY			
Description	Podofilox (Podophyllotoxin) is a potent inhibitor of microtubule assembly and DNA topoisomerase II.		
IC ₅₀ & Target	Topoisomerase II; Microtubule/Tubulin		
In Vitro	Podophyllotoxin, a kind of non-alkaloid toxin lignan extracted from the roots and rhizomes of Podophyllum plant, has been shown to inhibit the growth of various carcinoma cells. Podophyllotoxin is a natural product that inhibits the polymerization of tubulin and has served as a prototype for the development of diverse antitumor agents in clinical use.		

Product Data Sheet

₽H

έĤ

0

Ò

// 0

Ο

CUSTOMER VALIDATION

- Cancer Immunol Res. 2023 Mar 15;CIR-22-0483.
- Exp Ther Med. August 23, 2021.

See more customer validations on www.MedChemExpress.com

REFERENCES

[1]. Wang B, Chen L, Zhen H, et al. Proteomic changes induced by podophyllotoxin in human cervical carcinoma HeLa cells. Am J Chin Med. 2013;41(1):163-75.

[2]. Guerrero E, Abad A, Montenegro G, et al. Analgesic and anti-inflammatory activity of podophyllotoxin derivatives. Pharm Biol. 2013 Jan 31.

[3]. Li M, Zhou L, Yang D, et al. Biochemical composition and antioxidant capacity of extracts from Podophyllum hexandrum rhizome. BMC Complement Altern Med. 2012 Dec 22;12:263.

[4]. Prasad V, Chaudhuri AR, Curcio M, et al. Podophyllotoxin and nocodazole counter the effect of IKP104 on tubulin decay. J Protein Chem. 1998 Oct;17(7):663-8.

[5]. Podophyllotoxin

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