Glochidiol

®

MedChemExpress

Cat. No.:	HY-N3950	
CAS No.:	6610-56-6	HO
Molecular Formula:	$C_{30}H_{50}O_2$	
Molecular Weight:	442.72	
Target:	Microtubule/Tubulin	
Pathway:	Cell Cycle/DNA Damage; Cytoskeleton	H -
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.	Ē

Description	Glochidiol is an orally active tubulin polymerization inhibitor with an IC ₅₀ of 2.76 μM. Glochidiol shows anti-cancer activity ^[1] .		
IC ₅₀ & Target	IC50: 2.76 μ M (tubulin polymerization) ^[1]		
In Vitro Glochidiol (1-8 μM; 48 h) shows potent at manner ^[1] . Glochidiol interacts with tubulin by targe MCE has not independently confirmed th Cell Proliferation Assay ^[1]		ws potent antiproliferative activity against lung cancer cell lines in a concentration-dependent ulin by targeting the colchicine binding site ^[1] . confirmed the accuracy of these methods. They are for reference only.	
	Cell Line:	NCI-H2087, HOP-62, NCI-H520, HCC-44, HARA, EPLC-272H, NCI-H3122, COR-L105 and Calu- 6	
	Concentration:	1, 2, 4 and 8 μM	
	Incubation Time:	48 h	
	Result:	Showed potent antiproliferative activity against lung cancer cell lines NCI-H2087, HOP-62, NCI-H520, HCC-44, HARA, EPLC-272H, NCI-H3122, COR-L105 and Calu-6 with IC ₅₀ values of 4.12 μM, 2.01 μM, 7.53 μM, 1.62 μM, 4.79 μM, 7.69 μM, 2.36 μM, 6.07 μM and 2.10 μM, respectively.	
In Vivo	Glochidiol (60 mg/kg/day; i.g.; 21 days) effectively inhibits lung cancer HCC-44 xenograft tumor growth in nude mice ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.		
	Animal Model:	BALB/c nude mice bearing HCC-44 xenografts ^[1]	
	Dosage:	60 mg/kg/day	
	Administration:	Intragastric administration for a period of 21 days	
	Result:	Decreased average tumor weight and relative tumor volume with no obvious cytotoxic effect on the major organs, including heart, liver, and kidney.	

REFERENCES

[1]. Chen H, et al. Glochidiol, a natural triterpenoid, exerts its anti-cancer effects by targeting the colchicine binding site of tubulin. Invest New Drugs. 2021 Apr;39(2):578-586.

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

 Tel: 609-228-6898
 Fax: 609-228-5909
 E-mail: tech@MedChemExpress.com

 Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA