RedChemExpress

Product Data Sheet

Tubulin polymerization-IN-44

Cat. No.:	HY-155686	
Molecular Formula:	C ₁₉ H ₁₅ Cl ₂ N ₃ O ₃ S	,CI
Molecular Weight:	436.31	CI
Target:	Microtubule/Tubulin	
Pathway:	Cell Cycle/DNA Damage; Cytoskeleton	N-N
Storage:	Please store the product under the recommended conditions in the Certificate of	`S Ń
	Analysis.	

BIOLOGICAL ACTIVITY			
Description	Tubulinpolymer-in-44 (compound 7w) is a strong and effective Tubulin inhibitor, with an IC ₅₀ value of 0.21 μM. Tubulinpolymer-in-44 induces apoptosis by arresting G2/M phase, which can be used for cancer research.		
IC ₅₀ & Target	IC50: 0.21 μM (Tubulin) ^[1]		
In Vitro	Tubulin polymerization-IN-44 (0.42 μM, 24 h- 48 h) shows antiproliferative activity against SGC-7910 cells (IC ₅₀ values of 0.21 μM) ^[1] MCE has not independently confirmed the accuracy of these methods. They are for reference only. Cell Cycle Analysis		
	Cell Line:	SGC-7901 cells ^[1]	
	Concentration:	0.42 μΜ	
	Incubation Time:	24 h- 48 h	
	Result:	Extended up the percentage of cells in G2/M phase from 10% to 42% (24 h) after treatment. Induced cell apoptosis at about 48 h.	
In Vivo	Tubulin Polymers-in-44 (5-20 mg/kg every other day) inhibits tumor growth in a mouse model of breast cancer 4T1 cells without reducing body weight loss ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.		
	Animal Model:	Balb/c female mice (mouse breast cancer 4T1 cells) $^{[1]}$	
	Dosage:	5, 10, and 20 mg/kg; every other day	
	Administration:	intravenous injection (i.c.) ;12-day.	
	Result:	Inhibited tumor growth with the rate of 49.2%, 58.1% and 84.0% at the dose of 5, 10 and 20 mg/kg ; Did not cause a decrease in animal body weight even at the high dose (20 mg/kg).	

REFERENCES

[1]. Na Li, et al.Discovery of 6-aryl-2-(3,4,5-trimethoxyphenyl)thiazole[3,2-b][1,2,4]

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