Anticancer agent 47

MedChemExpress

R

Cat. No.:	HY-146040	
CAS No.:	2461795-23-1	S
Molecular Formula:	C ₁₉ H ₁₄ N ₂ O ₄ S	
Molecular Weight:	366.39	ОН
Target:	Apoptosis	
Pathway:	Apoptosis	0 0 0 0
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.	

BIOLOGICAL ACTIV				
BIOLOGICAL ACTIV				
Description		ound 4j) is a potent anticancer agent. Anticancer agent 47 shows antiproliferative activities. s apoptosis and cell cycle arrest at G0/G1 phase. Anticancer agent 47 shows shows antitumor		
In Vitro	Anticancer agent 47 (compound 4j) shows antiproliferative activities with IC ₅₀ s of 1.6, 0.72, 7.07 μM for HepG2, A549, H596 cells, respectively ^[1] . Anticancer agent 47 (0.8, 1.6, 3.2 μM; 24 h) induces apoptosis and cell cycle arrest at G0/G1 phase ^[1] . Anticancer agent 47 (5 μM; 5h) significantly increases ROS production ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only. Apoptosis Analysis ^[1]			
	Cell Line:	HepG2, H596 cells		
	Concentration:	0.8, 1.6, 3.2 μM		
	Incubation Time:	24 h		
	Result:	Induced apoptosis with the apoptotic cell rates were 14.23, 20.47 and 27.66% at 0.8, 1.6, 3.2 μM in HepG2 cell, respectively.		
	Cell Cycle Analysis ^[1]			
	Cell Line:	HepG2 cells		
	Concentration:	0.8, 1.6, 3.2 μΜ		
	Incubation Time:	24 h		
	Result:	Showed 48.54%, 49.60% and 53.00% cells were at G0/G1 phase at 0.6, 1.2 and 2.4 $\mu\text{M},$ respectively.		
In Vivo		/kg; i.v.; once every 2 days for 19 days) shows antitumor activities ^[1] . confirmed the accuracy of these methods. They are for reference only.		

Animal Model:	BALB/c nude mice (HepG2 xenografts) ^[1]
Dosage:	20 mg/kg
Administration:	I.v.; once every 2 days for 19 days
Result:	Effectively inhibited tumor growth with the 58.7% tumor inhibition rate.

REFERENCES

[1]. Wu L, et al. Synthesis and biological evaluation of β-lapachone-monastrol hybrids as potential anticancer agents. Eur J Med Chem. 2020 Oct 1;203:112594.

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