Anticancer agent 43

Cat. No.:	HY-146548			
CAS No.:	2470015-35	-9		
Molecular Formula:	C ₁₄ H ₉ FN ₂ O ₃	S ₂		
Molecular Weight:	336.36			
Target:	Apoptosis; Bcl-2 Family; Caspase; PARP			
Pathway:	Apoptosis; Cell Cycle/DNA Damage; Epigenetics			
Storage:	Powder	-20°C	3 years	
		4°C	2 years	
	In solvent	-80°C	6 months	
		-20°C	1 month	

SOLVENT & SOLUBILITY

		Solvent Mass Concentration	1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM	2.9730 mL	14.8650 mL	29.7301 ml
	5 mM	0.5946 mL	2.9730 mL	5.9460 mL	
	10 mM	0.2973 mL	1.4865 mL	2.9730 mL	

BIOLOGICAL ACTI	νιτγ				
Description	Anticancer Agent 43 is a potent anticancer agent. Anticancer Agent 43 induces apoptosis by caspase 3, PARP1, and Bax dependent mechanisms. Anticancer Agent 43 induces DNA damage ^[1] .				
IC ₅₀ & Target	Caspase 3	PARP1	Bax		
In Vitro	Anticancer agent 43 (45 μM, Anticancer agent 43 (45 μM, Anticancer agent 43 (0.7, 45, cells (Tail DNA=26.2%, OTM=	24 h) induces apoptosis via caspa 24 h) shows no effect on the trans 55 μM) induces DNA damage in H =13.2), Balb/c 3T3 cells (Tail DNA = confirmed the accuracy of these n	human tumor cells (SI ₅₀ =28.94) ^[1] . se 3, PARP1 and Bax dependent pathways in HepG2 cells ^[1] . iition of G1/S phases in HepG2 cells ^[1] . CT116 cells (Tail DNA=16.1%, OTM=3.7), MCF-7 cells, HepG2 8.4%, OTM = 3.5) ^[1] . nethods. They are for reference only. A549, WM793, THP-1, HaCaT, Balb/c3T3 cells		

Product Data Sheet





Concentration:	0, 1, 10, 100 μΜ				
Incubation Time:	72 h				
Result:	Showed cytotoxic action with GI ₅₀ s of 12.1, 0.7, 0.8, 49.3, 9.7 μM for for HepG2, MCF-7, HCT116, HeLa, A549 cells, low toxicity towards WM793, THP-1, HaCaT, Balb/c 3T3 cells wit GI ₅₀ s of 80.4, 62.4,98.3,40.8 μM , respectively.				
Apoptosis Analysis ^[1]					
Cell Line:	HepG2 cells				
Concentration:	45 μΜ				
Incubation Time:	24 h				
Result:	Induced apoptosis in HepG2 cells via caspase 3, PARP1 and Bax dependent pathways.				
Western Blot Analysis ^[1]					
Cell Line:	HCT116, MCF-7 cells				
Concentration:	0.7 μΜ				
Incubation Time:	24 h				
Result:	Decreased the expression of Cdk2 protein in HCT116 and MCF-7 cells.				
Cell Cycle Analysis ^[1]					
Cell Line:	HepG2 cells				
Concentration:	45 μΜ				
Incubation Time:	24 h				
Result:	Showed no effect on the transition of G1/S phases in HepG2 cells.				

REFERENCES

[1]. Kryshchyshyn-Dylevych A, et al. Synthesis of novel indole-thiazolidinone hybrid structures as promising scaffold with anticancer potential. Bioorg Med Chem. 2021; 50:116453.

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