Antitumor agent-79

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®

Cat. No.:	HY-151618	CI、
CAS No.:	2750233-50-0	
Molecular Formula:	C ₂₃ H ₁₉ CIN ₂ O	N -N
Molecular Weight:	374.86	
Target:	Apoptosis	
Pathway:	Apoptosis	
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.	

DIOLOCICAL ACTIV			
BIOLOGICAL ACTIV			
Description	Antitumor agent-79 shows good antiproliferative activities against hepatocellular carcinoma and breast cancer cells with IC ₅₀ values of 0.7-7.9 μM. Antitumor agent-79 induces cancer cells apoptosis and shows in vivo antitumor effects. Antitumor agent-79 can be used for the research of cancer ^[1] .		
IC ₅₀ & Target	IC50: 0.7 μM (Huh7), 1.4 μM (HepG2), 1.5 μM (SNU475), 7.9 μM (Hep3B), 2.4 μM (FOCUS), 5.2 μM (Hep40), 6.5 μM (PLC-PRF-5), 3.7 μM (Mahlavu), 0.9 μM (MCF7), 0.9 μM (MDA-MB231), 1.0 μM (MDA-MB468), 1.8 μM (SKBR3), 5.5 μM (ZR75), 7.6 μM (MCF10A) [1]		
In Vitro	Antitumor agent-79 (0.15-40 μM; 72 h) shows in vitro growth inhibitory activities against hepatocellular carcinoma and breast cancer cells with IC ₅₀ values of 0.7-7.9 μM ^[1] . Antitumor agent-79 (5 μM; 48 h) induces cell apoptosis by increasing the PARP cleavage ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only. Cell Cytotoxicity Assay ^[1]		
	Cell Line:	Huh7, HepG2, SNU475, Hep3B, FOCUS, Hep40, PLC-PRF-5, Mahlavu, MCF7, MDA-MB231. MDA-MB468, SKBR3, ZR75 and MCF10A cell lines	
	Concentration:	0.15-40 μΜ	
	Incubation Time:	72 hours	
	Result:	Time and dose-dependent showed cytotoxicity to hepatocellular carcinoma and breast cancer cells with IC ₅₀ values of 0.7, 1.4, 1.5, 7.9, 2.4, 5.2, 6.5, 3.7, 0.9, 0.9, 1.0, 1.8, 5.5 and 7.6 μM for Huh7, HepG2, SNU475, Hep3B, FOCUS, Hep40, PLC-PRF-5, Mahlavu, MCF7, MDA- MB231, MDA-MB468, SKBR3, ZR75 and MCF10A cells, respectively.	
	Western Blot Analysis ^[1]		
	Cell Line:	Mahlavu, Huh7, MCF-7 and MDA-MB-231 cancer cells	
	Concentration:	5 μΜ	
	Incubation Time:	48 hours	
	Result:	Increased the PARP cleavage in both breast cancer cells (MCF7 and MDA-MB-231) and	

Product Data Sheet

		hepatocellular carcinoma cells (Mahlavu).		
	Apoptosis Analysis ^[1]	Apoptosis Analysis ^[1]		
	Cell Line:	Mahlavu, Huh7, MCF-7 and MDA-MB-231 cancer cells		
	Concentration:	5 μΜ		
	Incubation Time:	48 hours		
	Result:	Induced cell apoptosis of cancer cells.		
	MCE has not independe	MCE has not independently confirmed the accuracy of these methods. They are for reference only.		
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	Animal Model:	6–8 weeks old male athymic nude mice with hepatocellular carcinoma (Mahlavu cells) and breast (MDA MB-231 cells) xenografts ^[1]		
	Dosage:	40 mg/kg		
		Oral gaugge 40 mg/lige twice a weak for 4 weaks		
	Administration:	Oral gavage, 40 mg/kg, twice a week for 4 weeks		

REFERENCES

[1]. Turanlı S, et al. Vicinal Diaryl-Substituted Isoxazole and Pyrazole Derivatives with In Vitro Growth Inhibitory and In Vivo Antitumor Activity. ACS Omega. 2022 Oct 3;7(41):36206-36226.

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

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