CPUY201112

Cat. No.: CAS No.: Molecular Formula: Molecular Weight: Target: Pathway: Storage:	HY-111524 1860793-58-3 C ₁₉ H ₂₃ N ₃ O ₄ 357.4 HSP; Apoptosis Cell Cycle/DNA Damage; Metabolic Enzyme/Protease; Apoptosis Please store the product under the recommended conditions in the Certificate of Analysis.	
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	CPUY201112 is a potent heat shock protein Hsp90 inhibitor with K _d of 27 nM. CPUY201112 induces p53-mediated apoptosis in MCF-7 cells, resulting in cell cycle arrest, which can be used in cancer research ^[1] .		
hepato CPUY20 MCE ha	CPUY201112 (0-9 μM, 7 days) reduces the viability of multiple cancer cell lines such as HCT116 colon cells, HepG2 hepatocellular carcinoma and other cancer cells in a dose-dependent manner ^[1] . CPUY201112 (0-2 μM, 24 h) can induce apoptosis in a dose-dependent manner ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only. Cell Proliferation Assay ^[1]		
Cell Lin	ne: H	CT116, HepG2, MCF-7, A549	
Concer	ntration: 0-	9 μΜ	
Incuba	tion Time: 7	days	
Result:		hibited MCF-7, A549, HCT116 and HepG2 cells with the IC $_{50}$ values of 0.624, 0.543, 0.763 nd 0.342 $\mu\text{M},$ respectively.	
Apopto	osis Analysis ^[1]		
Cell Lin	ne: M	CF-7 and HCT116 cells	
Concer	ntration: 0-	2 μM	
Incuba	tion Time: 24	4 h	
Result:	CE	duced cell cycle arrest in G2/M phase and induced apoptosis in more than 35% of MCF-7 ells. duced p53-mediated apoptosis in HCT116 cells.	
	CPUY201112 (5-40 mg/kg, i.p., daily, 3 weeks) inhibits tumor growth in the MCF-7 tumor xenograft model ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.		
Animal	Model: Fe	emale BALB/c nude mice with MCF-7 cell ^[1]	



Dosage:	5 mg/kg, 20 mg/kg and 40 mg/kg
Administration:	i.p., daily, 3 weeks
Result:	Reduced tumor volume by 11.92%, 26.58% and 39.63%, respectively, when using 5 mg/k 20 mg/kg and 40 mg/kg.
	Significantly induced the expression of Hsp70 and reduced the expression of Akt at 40
	mg/kg.

REFERENCES

[1]. Xiao-Li X, et al. CPUY201112, a novel synthetic small-molecule compound and inhibitor of heat shock protein Hsp90, induces p53-mediated apoptosis in MCF-7 cells. Sci Rep. 2016 Jan 8;6:19004.

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

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