Apoptosis inducer 7

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®

Cat. No.:	HY-149017	1
CAS No.:	2252278-57-0	
Molecular Formula:	C ₄₉ H ₆₈ N ₂ O ₇	_N_
Molecular Weight:	797.07	\square
Target:	Apoptosis	
Pathway:	Apoptosis	
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.	0 H

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Description	Apoptosis inducer 7 (Compound 5I) induces apoptosis in cancer cells. Apoptosis inducer 7 inducrs cleavage of PARP, caspases, down-regulation of anti-apoptotic protein c-Flip and up regulation of pro-apoptotic protein Noxa. Apoptosis inducer 7 exhibits antitumor activity ^[1] .			
In Vitro	Apoptosis inducer 7 (Compo activities against human can Apoptosis inducer 7 (Compo downregulation of anti-apop MCE has not independently o Cell Cytotoxicity Assay ^[1]	pptosis inducer 7 (Compound 5I) (0.098-50 μM, 96 hours; human tumor cell lines) exerts the most potent antitumor ivities against human cancer cell lines ^[1] . optosis inducer 7 (Compound 5I) induces apoptosis in HCT-116 cells, and the apoptosis induction is related to the wnregulation of anti-apoptotic protein c-Flip and upregulation of pro-apoptotic protein Noxa ^[1] . E has not independently confirmed the accuracy of these methods. They are for reference only. Il Cytotoxicity Assay ^[1]		
	Cell Line:	Human breast cancer MDA-MB-231 cells, human lung cancer A549 cells, human colorectal cancer HCT-116 cells, human liver cancer HepG-2 cells and one non-tumor human breast epithelial MCF-10A cells.		
	Concentration:	0.098-50 μΜ		
	Incubation Time:	96 hours		
	Result:	Inhibited with IC $_{50}$ values of 0.22, 0.15, 0.42, 0.14 and 1.03 μM for MDA-MB-231, A549, HCT-116, HepG-2 and MCF-10A, respectively.		
	Cell Cycle Analysis ^[1]			
	Cell Line:	HCT-116 cells		
	Concentration:	0.5, 0.75 and 1.0 μM		
	Incubation Time:	24 hours		
	Result:	More than 40% of the cells were detected in the sub G1 phase.		
	Western Blot Analysis ^[1]			
	Cell Line:	HCT-116 cells		

	Concentration:	0.5, 0.75 and 1.0 μM		
	Incubation Time:	24 hours		
	Result:	Induced cleavage of PARP, caspases and decreased the levels of c-Flip and HDAC3 proteins.		
In Vivo	Apoptosis inducer 7 (Co inhibits tumor growth ^{[1} MCE has not independe	Apoptosis inducer 7 (Compound 5I) (5 mg/kg; i.p.; three times a week, for 14 days; LL/2 xenograft model in C57/ BL6J mice inhibits tumor growth ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.		
	Animal Model:	KARPAS-422 subcutaneous xenograft in mice ^[1]		
	Dosage:	5 mg/kg		
	Administration:	Intraperitoneal injection; three times a week, for 14 days.		

REFERENCES

[1]. Huang M, et al. Synthesis and antitumor effects of novel 18β-glycyrrhetinic acid derivatives featuring an exocyclic α,β-unsaturated carbonyl moiety in ring A. Bioorg Chem. 2020 Oct;103:104187.

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