Antitumor agent-68

Cat. No.:	HY-146169		
CAS No.:	2566497-96-7		
Molecular Formula:	C ₁₇ H ₁₁ NO ₂	O N	
Molecular Weight:	261.27		
Target:	Reactive Oxygen Species; Microtubule/Tubulin		
Pathway:	Immunology/Inflammation; Metabolic Enzyme/Protease; NF-кB; Cell Cycle/DNA Damage; Cytoskeleton		
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.		

BIOLOGICAL ACTIVITY				
Description	Antitumor agent-68 is a potent tubulin inhibitor. Antitumor agent-68 shows potent anticancer activity with IC ₅₀ s of 3.6 and 3.8 µM for HeLa and MCF-7 cells, respectively. Antitumor agent-68 exhibits good scavenging activity of ROS and DPPH radical in a dose-dependent manner ^[1] . Antitumor agent-68 is a click chemistry reagent, it contains an Alkyne group and can undergo copper-catalyzed azide-alkyne cycloaddition (CuAAc) with molecules containing Azide groups.			
IC ₅₀ & Target	IC50: 3.6 μM (HeLa), 3.8 μM (MCF-7) ^[1]			
In Vitro	Antitumor agent-68 (Compound 7) exhibits anticancer activity with IC ₅₀ s of 3.6 and 3.8 μM, for HeLa and MCF-7 cells, respectively ^[1] . Antitumor agent-68 (10 μM; 24 hours) causes a 3-fold reduction of ROS production induced by Men in 3T3-L1 cells, and an EC ₅₀ of DPPH radical scavenging is 8.30 μg/mL ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only. Cell Viability Assay ^[1]			
	Cell Line:	HeLa, MCF-7, 3T3-L1		
	Concentration:	10 μΜ		
	Incubation Time:	24 hours		
	Result:	Showed anticancer activity by blocking the tubulin polymerization reaction. Reduced production of ROS, and scavenged DPPH radical.		

REFERENCES

[1]. Domenico lacopetta, et al. Synthesis, anticancer and antioxidant properties of new indole and pyranoindole derivatives. Bioorg Chem. 2020 Dec;105:104440.



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

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