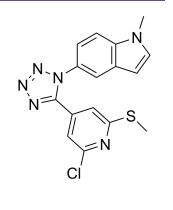
Tubulin inhibitor 36

Cat. No.:	HY-149374
Molecular Formula:	C ₁₆ H ₁₃ ClN ₆ S
Molecular Weight:	356.83
Target:	Microtubule/Tubulin
Pathway:	Cell Cycle/DNA Damage; Cytoskeleton
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



Product Data Sheet

BIOLOGICAL ACTIV				
Description	Tubulin inhibitor 36 (Comp protein then induces apopt mitotic effect and exhibits a	ound 10) is a novel and potent tubulin inhibitor and inhibits the polymerization of microtubular tosis with an IC ₅₀ value of 1.5±0.1 μM. Tubulin inhibitor 36 (Compound 10) has significant anti- activities against glioblastoma cells. Tubulin inhibitor 36 (Compound 10) has anti-tumor effects stoma multiforme (GBM) research ^[1] .		
In Vitro	Tubulin inhibitor 36 (Compound 10) exhibits antiproliferative activities against human tumor cell lines, and the IC ₅₀ value is 0.039, 0.038, 0.022, 0.025, 0.037, 0.040, 0.059 μM for HeLa, MCF7, U87 MG, T98G, HepG2, HCT8, HT-29 cells, respectively ^[1] . Tubulin inhibitor 36 (Compound 10) (100 nM, 24 h, 48 h, 72 h) arrests mitotic and apoptosis in HeLa, MCF7, and U87 MG cells ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only. Immunofluorescence ^[1]			
	Cell Line:	HeLa, MCF7, U87 MG cells		
	Concentration:	100 nM		
	Incubation Time:	24 h		
	Result:	Arrested tubulin polymerization in HeLa, MCF7, and U87 MG cells.		
	Cell Cycle Analysis ^[1]			
	Cell Line:	HeLa, MCF7, U87 MG cells		
	Concentration:	100 nM		
	Incubation Time:	24 h, 48 h, 72 h		
	Result:	Induced remarkable mitotic arrest in 24 h of HeLa cells. Induced mitotic arrest in 24 h of MCF7 cells but lower cell death compared to HeLa cells Induced remarkable mitotic arrest in 24 h of U87 MG cells and severe cell death.		
	Apoptosis Analysis ^[1]			
	Cell Line:	HeLa, MCF7, U87 MG cells		



Concentration:	100 nM
Incubation Time:	72 h
Result:	Induced nearly 73% of apoptosis in 72 h of HeLa cells and lower levels of MCF7 cells
	Induced lower cell death levels of MCF7 cells
	Displayed the highest cell death levels of d U87 MG cells

REFERENCES

[1]. Gallego-Yerga L, et al. Novel Tetrazole Derivatives Targeting Tubulin Endowed with Antiproliferative Activity against Glioblastoma Cells. Int J Mol Sci. 2023 Jul 4;24(13):11093.

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

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