## Tubulin polymerization-IN-36

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®

Cat. No.:	HY-151397	
CAS No.:	2011784-91-9	0- 0-N
Molecular Formula:	C <sub>18</sub> H <sub>18</sub> N <sub>2</sub> O <sub>3</sub>	
Molecular Weight:	310.35	
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

Description	Tubulin polymerization-IN-36 is a tubulin polymerization inhibitor (IC <sub>50</sub> : 2.8 μM). Tubulin polymerization-IN-36 binds to the colchicine site of tubulin and inhibits colchicine binding. Tubulin polymerization-IN-36 can be used in the research of cancers, such as lymphomas <sup>[1]</sup> .			
IC <sub>50</sub> & Target	Tubulin polymerization <sup>[1]</sup>			
In Vitro	Tubulin polymerization-IN-36 (compound 2e, 1 μM, 72 h) inhibits proliferation of lymphoma cells below 50% <sup>[1]</sup> . Tubulin polymerization-IN-36 (50 and 500 nM, 24-72 h) induces cell apoptosis and arrests cell in G2/M phase in VL51 and MINO cells <sup>[1]</sup> . Tubulin polymerization-IN-36 (5 μM) inhibits colchicine binding to tubulin by 88% <sup>[1]</sup> . Tubulin polymerization-IN-36 shows cytotoxicity against MCF-7 cells (IC <sub>50</sub> : 0.29 μM) <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only. Cell Proliferation Assay <sup>[1]</sup>			
	Cell Line:	VL51, MINO, HBL1, SU-DHL-10 cells.		
	Concentration:	0-10 μΜ		
	Incubation Time:	72 h		
	Result:	Inhibited cell proliferation to 38%, 0.8%, 7.1%, 30.5% at 1 $\mu$ M, respectively. IC_{50}s: 0.04, 0.02, 0.02, 0.03 $\mu$ M, respectively.		
	Cell Cycle Analysis <sup>[1]</sup>			
	Cell Line:	VL51 and MINO cells		
	Concentration:	50 and 500 nM		
	Incubation Time:	24, 48 and 72 h		
	Result:	Arrested cell in G2/M phase.		

## REFERENCES

[1]. Michael D Wendt, et al. Development of [1,2]oxazoloisoindoles tubulin polymerization inhibitors: Further chemical modifications and potential therapeutic effects against lymphomas. J Med Chem. 2006 Feb; 49(3): 1165-81.

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

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