Product Data Sheet

Tubulin polymerization-IN-25

Cat. No.: HY-149016

CAS No.: 2490538-46-8

Molecular Formula: $C_{24}H_{18}N_2O_3S$ Molecular Weight: 414.48

Target: Microtubule/Tubulin; Farnesyl Transferase

Pathway: Cell Cycle/DNA Damage; Cytoskeleton; Metabolic Enzyme/Protease

Storage: Please store the product under the recommended conditions in the Certificate of

Analysis.

BIOLOGICAL ACTIVITY

Description	Tubulin polymerization-IN-25 (compound 17f) is a dual inhibitor of tubulin polymerization and farnesyl transferase (FTase) with IC $_{50}$ s of 1.11 μ M and 0.39 μ M, respectively. Tubulin polymerization-IN-25 displays cytotoxicity and excellent antitumor activity $^{[1]}$.				
IC ₅₀ & Target	IC50: 1.11 μM (Tubulin); 0.39 μM (FTase) ^[1]				
In Vitro	Tubulin polymerization-IN-25 (compound 17f) is a dual inhibitor (MTI-FTI hybrids) acting on tubulin polymerization and on FTase $^{[1]}$. Tubulin polymerization-IN-25 (10 μ M, 48 h) inhibits cells growth and induces cell cytotoxicity on multiple cancer cell lines $^{[1]}$. MCE has not independently confirmed the accuracy of these methods. They are for reference only. Cell Viability Assay $^{[1]}$				
	Cell Line:	Leukemia cells: SR, CCRF-CEM, K-562; lung cancer cell CCRF-CEMNCI-H522; melanoma cell M14			
	Concentration:	10 μΜ			
	Incubation Time:	48 hours			
	Result:	Inhibited cell growth.			
	Cell Cytotoxicity Assay ^[1]				
	Cell Line:	NCI-H522 (lung cancer), COLO-205 and HT29 (colon cancer), SF-539 (human glioblastoma), MDA-MB-435 (melanoma), OVCAR-3 (ovarian cancer) and A498 (renal cancer)			
	Concentration:	10 μΜ			
	Incubation Time:	48 hours			
	Result:	Induced cell cytotoxicity.			

REFERENCES

1]. Iuliana-Monica Moise, et al. activity. Bioorg Chem. 2020 Oct		orids as the first dual inhibitors o	f tubulin polymerization and farnesyltransfe	erase with synergistic antitumor
	Caution: Product has no	t been fully validated for me	dical applications. For research use on	ly.
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