Anticancer agent 98

®

Cat. No.:	HY-149920
CAS No.:	2857070-72-3
Molecular Formula:	C ₁₇ H ₁₉ N ₅ O ₂
Molecular Weight:	325.37
Target:	Microtubule/Tubulin
Pathway:	Cell Cycle/DNA Damage; Cytoskeleton
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



Description	Anticancer agent 98 (compound 12k) is a microtubule/tubulin-polymerization inhibitor (K _d =16.9 μM). Anticancer agent 98 exerts antiproliferative potency against tumor cells, exhibits anti-angiogenesis effect in vitro. Anticancer agent 98 exhibits good human and mouse liver microsomes stability with both t _{1/2} >300 min ^[1] .									
In Vitro	Anticancer agent 9 from 0.6-3 nM ^[1] . Anticancer agent 9 Anticancer agent 9 SPR spectroscopy Anticancer agent 9 Anticancer agent 9 In Vitro Metabolic 9 human microsom $t_{1/2}$ (min) >300 MCE has not indep	18 inhibits cancer prolife 18 (300 nM, 1 μM, or 3 μH 18 (3.125, 6.25, 12.5, 25, assay ^[1] . 18 (10 μM, 50 μM; 0-60 m 18 (100 nM; 4 h) has anti Stability ^[1] 19 CL _{int} (μL/min/mg) <2.31 endently confirmed the	eration among mela A; 2 h) increases β-t and 50 μM) has high and strongly inhibit proliferative and ar mouse microsom $t_{1/2}$ (min) >300 e accuracy of these	anoma, breast cancer, an ubulin adduct in PC-3 ce n-binding affinity to tubu s tubulin polymerization nti-angiogenesis effect or es CL _{int} (µL/min/mg) <2.31 methods. They are for re	d pancreatic cancer w Ils dose-dependently ^[] lin proteins with Kd va during 60 min ^[1] . COS-7 cells in vitro ^[1]	ith IC50s ranging ^{I]} . Ilue of 16.9 μM by				
In Vivo	Anticancer agent 9 xenograft tumors i tumors, relative to Pharmacokinetic A Route	8 (2.5 mg/kg; i.v.; twice n male NSG mice. Antic the Paclitaxel (HY-B00) analysis in NSG Mice ^[1] Dose (mg/kg) C _{ma}	per week for 2 wee ancer agent 98 also L5; 10 mg/kg, once v _x (ng/mL) t _{ma}	ks) is well tolerated with significantly attenuates weekly) and control grou weekly) and control grou AUC (ng·min/ml	no significant weight l the progression of pro $ps^{[1]}$. $t_{1/2}$ (min)	loss in PC3/TxR ostate cancer F (%)				

Product Data Sheet

i.v.	4	1247	5.0	173,476	238	/			
p.o.	10	78.3	10.0	8161	358	2.02			
MCE has not indepe	ndently confirn	ned the accuracy o	f these methods.	They are for referer	nce only.				
Animal Model: PC3/TxR xenograft model in NSG mouse ^[1]									
Dosage:	2.5	2.5 mg/kg							
Administration:	IV; t	IV; twice weekly for 2 weeks							
Result:	Inhi by 4 Ove	Inhibited the tumor growth in volume by approximately 85.6%. And inhibited angiogenes by 44% related to control group. Overcame taxane resistance at a low, safe, but potent dose in vivo.							

REFERENCES

[1]. Pochampally S, et al. Design, Synthesis, and Biological Evaluation of Pyrimidine Dihydroquinoxalinone Derivatives as Tubulin Colchicine Site-Binding Agents That Displayed Potent Anticancer Activity Both In Vitro and In Vivo[J]. ACS Pharmacology & Translational Science, 2023.

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

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