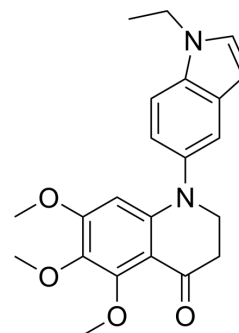


Tubulin polymerization-IN-55

Cat. No.:	HY-155359		
CAS No.:	2942396-29-2		
Molecular Formula:	C ₂₂ H ₂₄ N ₂ O ₄		
Molecular Weight:	380.44		
Target:	Microtubule/Tubulin		
Pathway:	Cell Cycle/DNA Damage; Cytoskeleton		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (262.85 mM; Need ultrasonic)			
		Solvent Concentration	Mass	
			1 mg	5 mg
			10 mg	
Preparing Stock Solutions	1 mM	2.6285 mL	13.1427 mL	26.2854 mL
	5 mM	0.5257 mL	2.6285 mL	5.2571 mL
	10 mM	0.2629 mL	1.3143 mL	2.6285 mL
Please refer to the solubility information to select the appropriate solvent.				
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (6.57 mM); Clear solution			

BIOLOGICAL ACTIVITY

Description	Tubulin polymerization-IN-55 is a potent inhibitor of Tubulin Polymerization. Tubulin polymerization-IN-55 has antiproliferative activity against A549, K562, HepG2, MDA-MB-231 and HFL-1 with IC ₅₀ s of 8, 3, 9, 24 and 62 nM, respectively [1].
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REFERENCES

[1]. Tan Y, et al. Design, synthesis and biological evaluation of novel dihydroquinolin-4(1H)-one derivatives as novel tubulin polymerization inhibitors. Eur J Med Chem. 2023 Oct 15;262:115881.

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

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