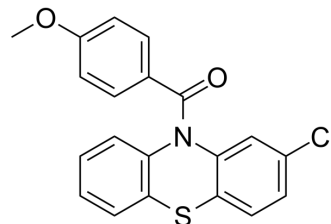


## Tubulin inhibitor 6

Cat. No.:	HY-136121		
CAS No.:	105925-39-1		
Molecular Formula:	C <sub>20</sub> H <sub>14</sub> ClNO <sub>2</sub> S		
Molecular Weight:	367.85		
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 : 62.5 mg/mL (169.91 mM; Need ultrasonic)					
		Solvent Concentration	Mass			
	Preparing Stock Solutions			1 mg	5 mg	10 mg
		1 mM		2.7185 mL	13.5925 mL	27.1850 mL
		5 mM		0.5437 mL	2.7185 mL	5.4370 mL
	10 mM		0.2718 mL	1.3592 mL	2.7185 mL	
Please refer to the solubility information to select the appropriate solvent.						
In Vivo	1. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 6.25 mg/mL (16.99 mM); Clear solution					

### BIOLOGICAL ACTIVITY

Description	Tubulin inhibitor 6 (Compound 14b) is a tubulin inhibitor and a potent inhibitor of multiple cancer cell lines. Tubulin inhibitor 6 inhibits tubulin polymerization with an IC <sub>50</sub> of 0.87 μM. Tubulin inhibitor 6 inhibits K562 cell growth with an IC <sub>50</sub> of 840 nM <sup>[1]</sup> .
IC <sub>50</sub> & Target	IC50: 0.87 μM (tubulin polymerization) <sup>[1]</sup>
In Vitro	Tubulin inhibitor 6 displays submicromolar antiproliferative activity <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

### REFERENCES

---

[1]. Prinz H, et al. N-benzoylated phenoxazines and phenothiazines: synthesis, antiproliferative activity, and inhibition of tubulin polymerization. J Med Chem. 2011 Jun 23;54(12):4247-63.

---

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: [tech@MedChemExpress.com](mailto:tech@MedChemExpress.com)

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA