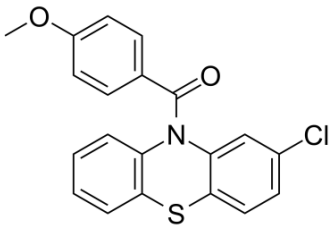
Tubulin inhibitor 6

Cat. No.:	HY-136121
CAS No.:	105925-39-1
Molecular Formula:	$C_{20}H_{14}ClNO_2S$
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)

Preparing Stock Solutions	Solvent / Mass / Concentration	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_{50} of 0.87 μM. Tubulin inhibitor 6 inhibits K562 cell growth with an IC_{50} of 840 nM[1].

IC_{50} & Target

IC50: 0.87 μM (tubulin polymerization)[1]

In Vitro

Tubulin inhibitor 6 displays submicromolar antiproliferative activity[1].

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.

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