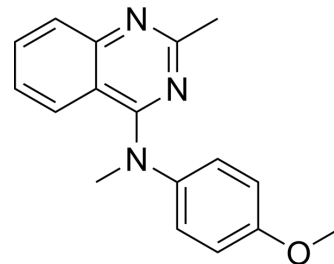


## Verubulin

<b>Cat. No.:</b>	HY-14907		
<b>CAS No.:</b>	827031-83-4		
<b>Molecular Formula:</b>	C <sub>17</sub> H <sub>17</sub> N <sub>3</sub> O		
<b>Molecular Weight:</b>	279.34		
<b>Target:</b>	Microtubule/Tubulin; Apoptosis		
<b>Pathway:</b>	Cell Cycle/DNA Damage; Cytoskeleton; Apoptosis		
<b>Storage:</b>	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



### SOLVENT & SOLUBILITY

<b>In Vitro</b>	DMSO : 100 mg/mL (357.99 mM; Need ultrasonic)			
		Solvent Concentration	Mass	
			1 mg	5 mg
			10 mg	
	<b>Preparing Stock Solutions</b>	1 mM	5 mM	10 mM
		3.5799 mL	17.8993 mL	35.7987 mL
		0.7160 mL	3.5799 mL	7.1597 mL
		0.3580 mL	1.7899 mL	3.5799 mL
Please refer to the solubility information to select the appropriate solvent.				
<b>In Vivo</b>	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.08 mg/mL (7.45 mM); Clear solution			
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.08 mg/mL (7.45 mM); Clear solution			
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.08 mg/mL (7.45 mM); Clear solution			

### BIOLOGICAL ACTIVITY

<b>Description</b>	Verubulin (MPC-6827) is a microtubule-disrupting agent with potent and broad-spectrum in vitro and in vivo cytotoxic activities, and acts as a promising candidate for the treatment of multiple cancer types <sup>[1]</sup> .
<b>IC<sub>50</sub> &amp; Target</b>	Microtubule <sup>[1]</sup>

### REFERENCES

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[1]. Kasibhatla S, et al. MPC-6827: a small-molecule inhibitor of microtubule formation that is not a substrate for multidrug resistance pumps. Cancer Res. 2007 Jun 15;67(12):5865-71.

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

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