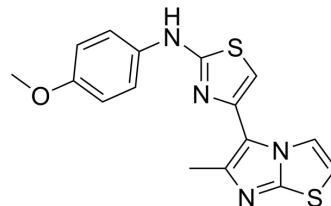


## GM-90257

<b>Cat. No.:</b>	HY-155956
<b>CAS No.:</b>	315703-81-2
<b>Molecular Formula:</b>	C <sub>16</sub> H <sub>14</sub> N <sub>4</sub> OS <sub>2</sub>
<b>Molecular Weight:</b>	342.44
<b>Target:</b>	Microtubule/Tubulin; Apoptosis
<b>Pathway:</b>	Cell Cycle/DNA Damage; Cytoskeleton; Apoptosis
<b>Storage:</b>	-20°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



### SOLVENT & SOLUBILITY

<b>In Vitro</b>	DMSO : 12.5 mg/mL (36.50 mM); ultrasonic and warming and heat to 60°C					
	<b>Preparing Stock Solutions</b>	<b>Solvent</b>	<b>Mass</b>	<b>1 mg</b>	<b>5 mg</b>	<b>10 mg</b>
		<b>Concentration</b>				
		<b>1 mM</b>		2.9202 mL	14.6011 mL	29.2022 mL
		<b>5 mM</b>		0.5840 mL	2.9202 mL	5.8404 mL
<b>10 mM</b>		0.2920 mL	1.4601 mL	2.9202 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: ≥ 1.25 mg/mL (3.65 mM); Clear solution					
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 1.25 mg/mL (3.65 mM); Clear solution					
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: 1.25 mg/mL (3.65 mM); Suspended solution; Need ultrasonic					

### BIOLOGICAL ACTIVITY

<b>Description</b>	GM-90257 is a microtubule acetylation inhibitor that binds directly to α-tubulin. GM-90257 prevents the recruitment of α-tubulin acetyltransferase 1 (αTAT1) to the K40 residue in α-tubulin. GM-90257 causes the apoptosis of MDA-MB-231 cells with weaker effects on MCF-10A or MCF-7 cells, which have a relatively low level of microtubule acetylation <sup>[1]</sup> .
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### REFERENCES

[1]. Ahreum Kwon, et al. Potent Small-Molecule Inhibitors Targeting Acetylated Microtubules as Anticancer Agents Against Triple-Negative Breast Cancer. Biomedicines.

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

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