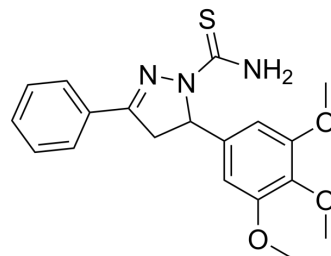


## SSE15206

<b>Cat. No.:</b>	HY-111425		
<b>CAS No.:</b>	1370046-40-4		
<b>Molecular Formula:</b>	C <sub>19</sub> H <sub>21</sub> N <sub>3</sub> O <sub>3</sub> S		
<b>Molecular Weight:</b>	371.45		
<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	2 years
		-20°C	1 year



### SOLVENT & SOLUBILITY

<b>In Vitro</b>	DMSO : 150 mg/mL (403.82 mM; Need ultrasonic)			
		Solvent Concentration	Mass	
			1 mg	5 mg
			10 mg	
<b>Preparing Stock Solutions</b>	<b>1 mM</b>	2.6922 mL	13.4608 mL	26.9215 mL
	<b>5 mM</b>	0.5384 mL	2.6922 mL	5.3843 mL
	<b>10 mM</b>	0.2692 mL	1.3461 mL	2.6922 mL
Please refer to the solubility information to select the appropriate solvent.				
<b>In Vivo</b>	<ol style="list-style-type: none"> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 40% PEG300 &gt;&gt; 5% Tween-80 &gt;&gt; 45% saline Solubility: ≥ 2.5 mg/mL (6.73 mM); Clear solution</li> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 90% (20% SBE-β-CD in saline) Solubility: 2.5 mg/mL (6.73 mM); Suspended solution; Need ultrasonic</li> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 90% corn oil Solubility: ≥ 2.5 mg/mL (6.73 mM); Clear solution</li> </ol>			

### BIOLOGICAL ACTIVITY

<b>Description</b>	SSE15206 is a microtubule polymerization inhibitor (GI <sub>50</sub> = 197 nM in HCT116 cells) that overcomes multidrug resistance. Causes aberrant mitosis resulting in G <sub>2</sub> /M arrest due to incomplete spindle formation in cancer cells <sup>[1]</sup> .
<b>IC<sub>50</sub> &amp; Target</b>	GI <sub>50</sub> : 197 nM (microtubule) <sup>[1]</sup> .
<b>In Vitro</b>	SSE15206 induces apoptosis in cells irrespective of MDR-1 overexpression cell lines (KB-V1, A2780-Pac-Res), highly resistant to paclitaxel cells (HCT116-Pac-Res) and parental cells at the concentration of 5 × and 10 × GI <sub>50</sub> values. To conclude,

SSE15206 is able to overcome resistance to chemotherapeutic drugs such as paclitaxel in different cancer cell lines<sup>[1]</sup>. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Western Blot Analysis<sup>[1]</sup>

Cell Line:	Drug-resistant cell lines (KB-V1, A2780-Pac-Res, HCT116-Pac-Res) and parental cells.
Concentration:	5 × and 10 × GI <sub>50</sub> values (GI <sub>50</sub> =197 nM in HCT-116 cells).
Incubation Time:	24 hours.
Result:	Induced apoptosis in cells irrespective of MDR-1 overexpression and HCT116-Pac-Res and parental cells.

## REFERENCES

[1]. Manzoor S, et al. Identification and characterization of SSE15206, a microtubule depolymerizing agent that overcomes multidrug resistance. Sci Rep. 2018 Feb 19;8(1):3305.

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

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