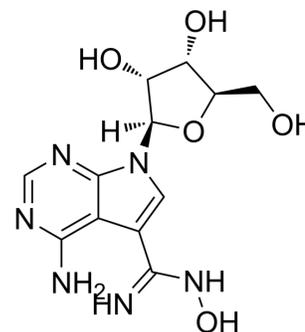


## NSC 107512

<b>Cat. No.:</b>	HY-141687
<b>CAS No.:</b>	22242-89-3
<b>Molecular Formula:</b>	C <sub>12</sub> H <sub>16</sub> N <sub>6</sub> O <sub>5</sub>
<b>Molecular Weight:</b>	324.29
<b>Target:</b>	CDK; Apoptosis
<b>Pathway:</b>	Cell Cycle/DNA Damage; Apoptosis
<b>Storage:</b>	-20°C, protect from light, stored under nitrogen * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light, stored under nitrogen)



### SOLVENT & SOLUBILITY

<b>In Vitro</b>	DMSO : 170 mg/mL (524.22 mM; Need ultrasonic)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	<b>Preparing Stock Solutions</b>	1 mM	3.0837 mL	15.4183 mL	30.8366 mL
		5 mM	0.6167 mL	3.0837 mL	6.1673 mL
10 mM		0.3084 mL	1.5418 mL	3.0837 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: ≥ 4.25 mg/mL (13.11 mM); Clear solution</li> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 90% (20% SBE-β-CD in saline) Solubility: ≥ 4.25 mg/mL (13.11 mM); Clear solution</li> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 90% corn oil Solubility: ≥ 4.25 mg/mL (13.11 mM); Clear solution</li> </ol>				

### BIOLOGICAL ACTIVITY

<b>Description</b>	NSC 107512 is a potent inhibitor of cyclin-dependent kinase 9 (CDK9). NSC 107512 is a class of sangivamycin-like molecules (SLM). NSC 107512 inhibits growth and induces apoptosis of multiple myeloma tumors <sup>[1]</sup> .
<b>IC<sub>50</sub> &amp; Target</b>	CDK9 <sup>[1]</sup>

### REFERENCES

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[1]. Dolloff NG, et al. Sangivamycin-like molecule 6 exhibits potent anti-multiple myeloma activity through inhibition of cyclin-dependent kinase-9. Mol Cancer Ther. 2012;11(11):2321-2330.

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

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