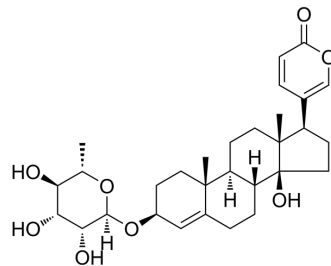


## Proscillaridin A

<b>Cat. No.:</b>	HY-N2331		
<b>CAS No.:</b>	466-06-8		
<b>Molecular Formula:</b>	C <sub>30</sub> H <sub>42</sub> O <sub>8</sub>		
<b>Molecular Weight:</b>	530.65		
<b>Target:</b>	Topoisomerase		
<b>Pathway:</b>	Cell Cycle/DNA Damage		
<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 (188.45 mM; Need ultrasonic)			
		Solvent Concentration	Mass	
			1 mg	5 mg
			10 mg	
<b>Preparing Stock Solutions</b>	<b>1 mM</b>	1.8845 mL	9.4224 mL	18.8448 mL
	<b>5 mM</b>	0.3769 mL	1.8845 mL	3.7690 mL
	<b>10 mM</b>	0.1884 mL	0.9422 mL	1.8845 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 (4.71 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 (4.71 mM); Clear solution</li> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 90% corn oil Solubility: ≥ 2.5 mg/mL (4.71 mM); Clear solution</li> </ol>			

### BIOLOGICAL ACTIVITY

<b>Description</b>	Proscillaridin A is a potent poison of topoisomerase I/II activity with IC <sub>50</sub> values of 30 nM and 100 nM, respectively <sup>[1]</sup> .	
<b>IC<sub>50</sub> &amp; Target</b>	Topoisomerase I 30 nM (IC <sub>50</sub> )	Topoisomerase II 100 nM (IC <sub>50</sub> )
<b>In Vitro</b>	Proscillaridin A (0-160 nM; 48 hours) reveals the antiproliferative response in a time- as well as dose-dependent manner in MCF-7 cells <sup>[1]</sup> .	

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MCE has not independently confirmed the accuracy of these methods. They are for reference only.

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## REFERENCES

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[1]. Bielawski K, et al. Inhibition of DNA topoisomerases I and II, and growth inhibition of breast cancer MCF-7 cells by ouabain, digoxin and proscillaridin A. *Biol Pharm Bull.* 2006 Jul;29(7):1493-7.

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

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