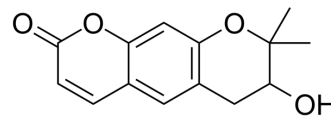


## (±)-Decursinol

<b>Cat. No.:</b>	HY-N2567
<b>CAS No.:</b>	5993-18-0
<b>Molecular Formula:</b>	C <sub>14</sub> H <sub>14</sub> O <sub>4</sub>
<b>Molecular Weight:</b>	246.26
<b>Target:</b>	Bacterial
<b>Pathway:</b>	Anti-infection
<b>Storage:</b>	4°C, sealed storage, away from moisture and light * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light)



### SOLVENT & SOLUBILITY

<b>In Vitro</b>	DMSO : 100 mg/mL (406.07 mM; Need ultrasonic)																					
	<table border="1"> <thead> <tr> <th rowspan="2">Solvent</th> <th rowspan="2">Mass</th> <th colspan="3">Concentration</th> </tr> <tr> <th>1 mg</th> <th>5 mg</th> <th>10 mg</th> </tr> </thead> <tbody> <tr> <td rowspan="3">Preparing Stock Solutions</td> <td>1 mM</td> <td>4.0607 mL</td> <td>20.3037 mL</td> <td>40.6075 mL</td> </tr> <tr> <td>5 mM</td> <td>0.8121 mL</td> <td>4.0607 mL</td> <td>8.1215 mL</td> </tr> <tr> <td>10 mM</td> <td>0.4061 mL</td> <td>2.0304 mL</td> <td>4.0607 mL</td> </tr> </tbody> </table>	Solvent	Mass	Concentration			1 mg	5 mg	10 mg	Preparing Stock Solutions	1 mM	4.0607 mL	20.3037 mL	40.6075 mL	5 mM	0.8121 mL	4.0607 mL	8.1215 mL	10 mM	0.4061 mL	2.0304 mL	4.0607 mL
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	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 (10.15 mM); Clear solution</li> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 90% corn oil Solubility: ≥ 2.5 mg/mL (10.15 mM); Clear solution</li> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 90% (20% SBE-β-CD in saline) Solubility: ≥ 0.27 mg/mL (1.10 mM); Clear solution</li> </ol>																					

### BIOLOGICAL ACTIVITY

<b>Description</b>	(±)-Decursinol is a potent FtsZ inhibitor. (±)-Decursinol inhibits B. anthracis FtsZ polymerization with an IC <sub>50</sub> of 102 μM <sup>[1]</sup> .
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### REFERENCES

[1]. Park HC, et al. Characterization and in vitro inhibition studies of Bacillus anthracis FtsZ: a potential antibacterial target. Appl Biochem Biotechnol. 2014;172(6):3263-3270.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: [tech@MedChemExpress.com](mailto:tech@MedChemExpress.com)

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA