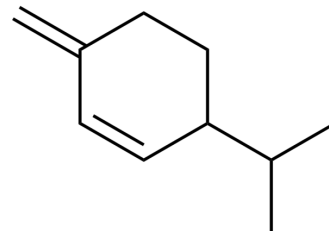


## β-Phellandrene

Cat. No.:	HY-N8573
CAS No.:	555-10-2
Molecular Formula:	C <sub>10</sub> H <sub>16</sub>
Molecular Weight:	136.23
Target:	Others
Pathway:	Others
Storage:	4°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

In Vitro	DMSO : 100 mg/mL (734.05 mM; Need ultrasonic)																													
	Preparing Stock Solutions	<table border="1"> <thead> <tr> <th>Solvent</th> <th>Mass</th> <th>1 mg</th> <th>5 mg</th> <th>10 mg</th> </tr> </thead> <tbody> <tr> <td>Concentration</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>1 mM</td> <td></td> <td>7.3405 mL</td> <td>36.7026 mL</td> <td>73.4053 mL</td> </tr> <tr> <td>5 mM</td> <td></td> <td>1.4681 mL</td> <td>7.3405 mL</td> <td>14.6811 mL</td> </tr> <tr> <td>10 mM</td> <td></td> <td>0.7341 mL</td> <td>3.6703 mL</td> <td>7.3405 mL</td> </tr> </tbody> </table>	Solvent	Mass	1 mg	5 mg	10 mg	Concentration					1 mM		7.3405 mL	36.7026 mL	73.4053 mL	5 mM		1.4681 mL	7.3405 mL	14.6811 mL	10 mM		0.7341 mL	3.6703 mL	7.3405 mL			
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Please refer to the solubility information to select the appropriate solvent.																														
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (18.35 mM); Clear solution																													
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (18.35 mM); Clear solution																													
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (18.35 mM); Clear solution																													

### BIOLOGICAL ACTIVITY

Description	β-Phellandrene is obtained from <i>Carum petroselinum</i> . β-Phellandrene can be used to essential oil additives <sup>[1]</sup> .
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### REFERENCES

[1]. Mariotti, J. P., et al. Composition and variability of the essential oil of *Stachys glutinosa* L. from Corsica (France).

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

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