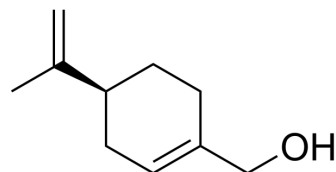


## (S)-(-)-Perillyl alcohol

<b>Cat. No.:</b>	HY-116514
<b>CAS No.:</b>	18457-55-1
<b>Molecular Formula:</b>	C <sub>10</sub> H <sub>16</sub> O
<b>Molecular Weight:</b>	152.23
<b>Target:</b>	Apoptosis; Endogenous Metabolite
<b>Pathway:</b>	Apoptosis; Metabolic Enzyme/Protease
<b>Storage:</b>	4°C, stored under nitrogen * In solvent : -80°C, 6 months; -20°C, 1 month (stored under nitrogen)



### SOLVENT & SOLUBILITY

#### In Vitro

DMSO : ≥ 250 mg/mL (1642.25 mM)  
\* "≥" means soluble, but saturation unknown.

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	6.5690 mL	32.8450 mL	65.6901 mL
	5 mM	1.3138 mL	6.5690 mL	13.1380 mL
	10 mM	0.6569 mL	3.2845 mL	6.5690 mL

Please refer to the solubility information to select the appropriate solvent.

#### In Vivo

- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline  
Solubility: ≥ 2.08 mg/mL (13.66 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)  
Solubility: ≥ 2.08 mg/mL (13.66 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil  
Solubility: ≥ 2.08 mg/mL (13.66 mM); Clear solution

### BIOLOGICAL ACTIVITY

#### Description

(S)-(-)-Perillyl alcohol is a monoterpene found in lavender, inhibits farnesylation of Ras, upregulates the mannose-6-phosphate receptor and induces apoptosis. Anti-cancer activity<sup>[1]</sup>.

### REFERENCES

- [1]. Liston BW, et al. Perillyl alcohol as a chemopreventive agent in N-nitrosomethylbenzylamine-induced rat esophageal tumorigenesis. Cancer Res. 2003 May

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

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