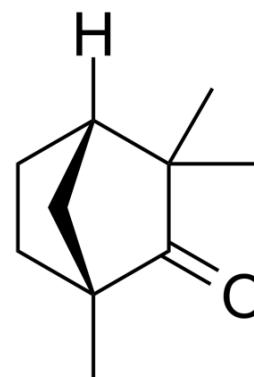


## (-)-Fenchone

Cat. No.:	HY-N5132		
CAS No.:	7787-20-4		
Molecular Formula:	C <sub>10</sub> H <sub>16</sub> O		
Molecular Weight:	152.23		
Target:	Others		
Pathway:	Others		
Storage:	Pure form	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



### SOLVENT & SOLUBILITY

#### In Vitro

DMSO : 100 mg/mL (656.90 mM; Need ultrasonic)

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: ≥ 2.5 mg/mL (16.42 mM); Clear solution
- Add each solvent one by one: **10% DMSO >> 90% corn oil**  
Solubility: ≥ 2.5 mg/mL (16.42 mM); Clear solution

### BIOLOGICAL ACTIVITY

#### Description

(-)-Fenchone, a bicyclic monoterpene, is widely distributed in plants and found in essential oils from *Thuja occidentalis*. (-)-Fenchone is oxidized to 6-endo-hydroxyfenchone, 6-exo-hydroxyfenchone and 10-hydroxyfenchone derivatives by CYP2A6 and CYP2B6 in human liver microsomes with CYP2A6 playing a more important role than CYP2B6<sup>[1]</sup>.

### REFERENCES

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

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