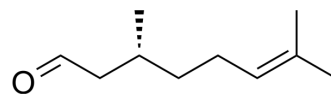


## (R)-(+)-Citronellal

<b>Cat. No.:</b>	HY-111664		
<b>CAS No.:</b>	2385-77-5		
<b>Molecular Formula:</b>	C <sub>10</sub> H <sub>18</sub> O		
<b>Molecular Weight:</b>	154.25		
<b>Target:</b>	Endogenous Metabolite		
<b>Pathway:</b>	Metabolic Enzyme/Protease		
<b>Storage:</b>	Pure form	-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 (648.30 mM; Need ultrasonic)					
		Solvent Concentration	Mass	1 mg	5 mg	10 mg
	<b>Preparing Stock Solutions</b>	1 mM		6.4830 mL	32.4149 mL	64.8298 mL
		5 mM		1.2966 mL	6.4830 mL	12.9660 mL
10 mM			0.6483 mL	3.2415 mL	6.4830 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 (16.21 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 (16.21 mM); Clear solution</li> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 90% corn oil Solubility: ≥ 2.5 mg/mL (16.21 mM); Clear solution</li> </ol>					

### BIOLOGICAL ACTIVITY

<b>Description</b>	(R)-(+)-Citronellal, isolated from citrus, lavender and eucalyptus oils, is a monoterpenoid and main component of citronellal oil with a distinct lemon scent. A flavouring agent. Used for insect repellent and antifungal properties <sup>[1][2]</sup> .
<b>IC<sub>50</sub> &amp; Target</b>	Human Endogenous Metabolite

### REFERENCES

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[1]. Kim E, et al. Fumigant antifungal activity of Myrtaceae essential oils and constituents from *Leptospermum petersonii* against three *Aspergillus* species. *Molecules*. 2012 Sep 3;17(9):10459-69.

[2]. Showing metabocard for (R)-Citronellal (HMDB0035820)

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

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