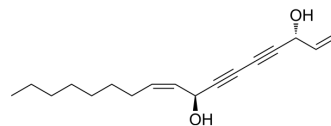


## (+)-(3R,8S)-Falcarindiol

<b>Cat. No.:</b>	HY-N1976		
<b>CAS No.:</b>	225110-25-8		
<b>Molecular Formula:</b>	C <sub>17</sub> H <sub>24</sub> O <sub>2</sub>		
<b>Molecular Weight:</b>	260.37		
<b>Target:</b>	Bacterial		
<b>Pathway:</b>	Anti-infection		
<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 : 150 mg/mL (576.10 mM; Need ultrasonic)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	<b>Preparing Stock Solutions</b>	1 mM	3.8407 mL	19.2034 mL	38.4069 mL
		5 mM	0.7681 mL	3.8407 mL	7.6814 mL
10 mM		0.3841 mL	1.9203 mL	3.8407 mL	
Please refer to the solubility information to select the appropriate solvent.					
<b>In Vivo</b>	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (9.60 mM); Clear solution  2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (9.60 mM); Clear solution				

### BIOLOGICAL ACTIVITY

<b>Description</b>	(+)-(3R,8S)-Falcarindiol is a polyacetylene found in carrots, has antimycobacterial activity, with an IC <sub>50</sub> of 6 μM and MIC of 24 μM against Mycobacterium tuberculosis H37Ra <sup>[1][2]</sup> . Antineoplastic and anti-inflammatory activity <sup>[2]</sup> . (+)-(3R,8S)-Falcarindiol is a click chemistry reagent, it contains an Alkyne group and can undergo copper-catalyzed azide-alkyne cycloaddition (CuAAC) with molecules containing Azide groups.
<b>IC<sub>50</sub> &amp; Target</b>	IC <sub>50</sub> : 6 μM (Mycobacterium tuberculosis H37Ra) <sup>[1]</sup>

### REFERENCES

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[1]. O'Neill T, et al. The Canadian medicinal plant *Heracleum maximum* contains antimycobacterial diynes and furanocoumarins. *J Ethnopharmacol.* 2013 May 2;147(1):232-7.

[2]. Kobaek-Larsen M, et al. Effect of the dietary polyacetylenes falcarinol and falcarindiol on the gut microbiota composition in a rat model of colorectal cancer. *BMC Res Notes.* 2018 Jun 27;11(1):411.

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

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