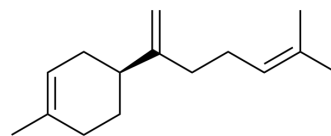


## β-Bisabolene

Cat. No.:	HY-136552
CAS No.:	495-61-4
Molecular Formula:	C <sub>15</sub> H <sub>24</sub>
Molecular Weight:	204.35
Target:	Others
Pathway:	Others
Storage:	4°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



### SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (489.36 mM; Need ultrasonic)				
		Solvent Concentration	Mass		
	Preparing Stock Solutions		1 mg	5 mg	10 mg
		1 mM	4.8936 mL	24.4678 mL	48.9356 mL
		5 mM	0.9787 mL	4.8936 mL	9.7871 mL
	10 mM	0.4894 mL	2.4468 mL	4.8936 mL	
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 (12.23 mM); Clear solution				
	2. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (12.23 mM); Clear solution				

### BIOLOGICAL ACTIVITY

Description	β-Bisabolene is a sesquiterpene isolated from opoponax ( <i>Commiphora guidotti</i> ). β-Bisabolene, an anti-cancer agent, can be used for the study of breast cancer <sup>[1]</sup> .
In Vitro	β-Bisabolene exhibits selective cytotoxic activity for mouse cells, it against normal Eph4, MG1361 and 4T1 cells with IC <sub>50</sub> values of >200 μg/ml, 65.49 μg/ml, and 48.99 μg/ml, respectively. It against normal MCF-10A, MCF-7, MDA-MB-231, SKBR3 and BT474 cells with IC <sub>50</sub> values of 114.3 μg/mL, 66.91 μg/mL, 98.39 μg/mL, 70.62 μg/mL and 74.3 μg/mL, respectively <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.
In Vivo	β-Bisabolene is effective in reducing the growth of transplanted 4T1 mammary tumours in vivo (37.5% reduction in volume by endpoint) <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

---

## REFERENCES

[1]. Syn Kok Yeo, et al.  $\beta$ -Bisabolene, a Sesquiterpene From the Essential Oil Extract of Opoponax (*Commiphora Guidottii*), Exhibits Cytotoxicity in Breast Cancer Cell Lines. *Phytother Res.* 2016 Mar;30(3):418-25.

---

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: [tech@MedChemExpress.com](mailto:tech@MedChemExpress.com)

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA