Zingiberene

Cat. No.: HY-14618

CAS No.: 495-60-3

Molecular Formula: $C_{15}H_{24}$

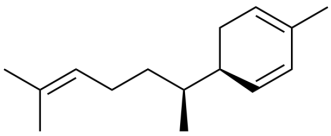
Molecular Weight: 204.35

Target: Autophagy

Pathway: Autophagy

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 : 12.5 mg/mL (61.17 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	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.

BIOLOGICAL ACTIVITY

Description

Zingiberene (α-Zingiberene) is a monocyclic sesquiterpene which is the predominant constituent of ginger with oil content (Zingiber officinale). Neuroprotective potential[1]. Zingiberene triggers autophagy. Anticancer activity[2].

In Vitro

Zingiberene (6.25, 12.5, 25, 50 and 100 μg/mL; 24 hours) attenuates hydrogen peroxide-induced toxicity in neuronal cells[1].
Zingiberene (0, 10, 20 and 40 μM; 24 hours) considerably inhibits the proliferation of Colon cancer (CC) cells[2].
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. B Togar, et al. Zingiberene attenuates hydrogen peroxide-induced toxicity in neuronal cells. Hum Exp Toxicol. 2015 Feb;34(2):135-44.

[2]. Hai Chen, Zingiberene inhibits in vitro and in vivo human colon cancer cell growth via autophagy induction, suppression of PI3K/AKT/mTOR Pathway and caspase 2 deactivation. J BUON. Jul-Aug 2019;24(4):1470-1475.

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

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