Guaiol

Cat. No.: HY-N3980

CAS No.: 489-86-1

Molecular Formula: $C_{15}H_{26}O$

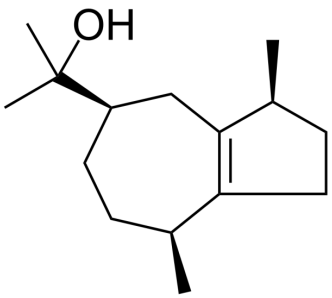
Molecular Weight: 222.37

Target: Autophagy

Pathway: Autophagy

Storage:

Powder	-20°C	3 years
In solvent	-80°C	6 months
	-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 33.33 mg/mL (149.89 mM; Need ultrasonic)

Preparing Stock Solutions	Mass / Solvent / Concentration	1 mg	5 mg	10 mg
	1 mM	4.4970 mL	22.4850 mL	44.9701 mL
	5 mM	0.8994 mL	4.4970 mL	8.9940 mL
	10 mM	0.4497 mL	2.2485 mL	4.4970 mL

Please refer to the solubility information to select the appropriate solvent.

In Vivo

1. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.5 mg/mL (11.24 mM); Clear solution
2. Add each solvent one by one: 50% PEG300 >> 50% saline
   Solubility: 1 mg/mL (4.50 mM); Suspended solution; Need ultrasonic

BIOLOGICAL ACTIVITY

Description

Guaiol is a sesquiterpene alcohol that has been found in several traditional Chinese medicinal plants and has antiproliferative, pro-autophagic, insect repellent, and insecticidal biological activities[1][2][3].

REFERENCES

[1]. Yang, Q, et al. (−)-Guaiol regulates RAD51 stability via autophagy to induce cell apoptosis in non-small cell lung cancer Oncotarget. 2016 Sep 20;7(38):62585-62597.

[2]. Ali, A., Tabanca, et al. Chemical composition and biological activity of four salvia essential oils and individual compounds against two species of mosquitoes J. Agric. Food Chem. 63(2), 447-456 (2015).

[3]. Liu, T, et al. Guaiol - a naturally occurring insecticidal sesquiterpene Nat. Prod. Commun. 8(10), 1353-1354 (2013).

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

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