Sedanolide

Cat. No.: HY-N2114

CAS No.: 6415-59-4

Molecular Formula: $C_{12}H_{18}O_2$

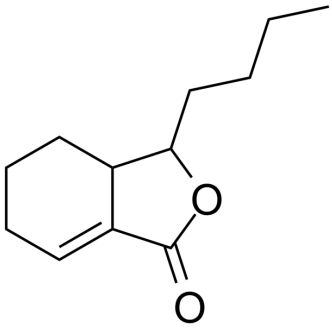
Molecular Weight: 194.27

Target: Autophagy

Pathway: Autophagy

Storage:

Powder	-20°C	3 years
	4°C	2 years
In solvent	-80°C	6 months
	-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (514.75 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	5.1475 mL	25.7374 mL	51.4748 mL
	5 mM	1.0295 mL	5.1475 mL	10.2950 mL
	10 mM	0.5147 mL	2.5737 mL	5.1475 mL

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

BIOLOGICAL ACTIVITY

Description

Sedanolide, a natural compound occurring in edible umbelliferous plants, possesses anti-inflammatory and antioxidant activities[1][2].

In Vitro

Sedanolide induces autophagy through the PI3K, p53 and NF-κB signaling pathways in human liver cancer cells[2].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

In Vivo

Sedanolide increases the activity of glutathione-S-transferase (GST) in the liver, small intestinal mucosa, and forestomach of A/J mice[1].

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REFERENCES

[1]. J A Woods, et al. Sedanolide, a Natural Phthalide From Celery Seed Oil: Effect on Hydrogen Peroxide and Tert-Butyl Hydroperoxide-Induced Toxicity in HepG2 and CaCo-2 Human Cell Lines. In Vitr Mol Toxicol. Fall 2001;14(3):233-40.

[2]. Shu-Ling Hsieh, et al. Sedanolide Induces Autophagy Through the PI3K, p53 and NF-κB Signaling Pathways in Human Liver Cancer Cells. Int J Oncol. 2015 Dec;47(6):2240-6.

Tel: 609-228-6898 Fax: 609-228-5909 E-mail: tech@MedChemExpress.com
Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA