

Sedanolid

Chemical Properties

CAS No. : 6415-59-4

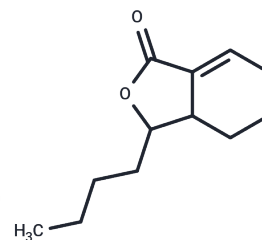
Formula: C₁₂H₁₈O₂

Molecular Weight: 194.27

Storage: Store at low temperature, Keep away from direct sunlight

Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



Biological Description

Description	Sedanolid is a natural phthalide first isolated from seed oil of the Umbelliferae family, including celery.
Targets(IC50)	Autophagy
In vitro	Sedanolid suppressed J5 cell viability by inducing autophagy. Phosphoinositide 3-kinase (PI3K)-I, mammalian target of rapamycin (mTOR) and Akt protein levels decreased, whereas PI3K-III, LC3-II and Beclin-1 protein levels increased following Sedanolid treatment in J5 cells. In addition, Sedanolid treatment upregulated nuclear p53 and damage-regulated autophagy modulator (DRAM) and downregulated cytosolic p53 and Tp53-induced glycolysis and apoptosis regulator (TIGAR) expression in J5 cells. Furthermore, the cytosolic phosphorylation of inhibitor of kappa B (IκB) and nuclear p65 and the DNA-binding activity of NF-κB increased after Sedanolid treatment. These results suggest that Sedanolid induces J5 cell autophagy by regulating PI3K, p53 and NF-κB autophagy-associated signaling pathways in J5 cells.

Solubility Information

Solubility	DMSO: 9 mg/mL (46.33 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	5.1475 mL	25.7374 mL	51.4748 mL
5 mM	1.0295 mL	5.1475 mL	10.295 mL
10 mM	0.5147 mL	2.5737 mL	5.1475 mL
50 mM	0.1029 mL	0.5147 mL	1.0295 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Hsieh S L , Chen C T , Wang J J , et al. Sedanolid induces autophagy through the PI3K, p53 and NF- κ B signaling pathways in human liver cancer cells[J]. International Journal of Oncology, 2015, 47(6).

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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