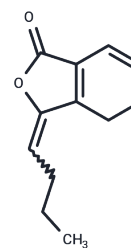


Ligustilide

Chemical Properties

CAS No. :	4431-01-0
Formula:	C ₁₂ H ₁₄ O ₂
Molecular Weight:	190.24
Appearance:	no data available
Storage:	store at low temperature
	Powder: -20°C for 3 years In solvent: -80°C for 1 year



Biological Description

Description	3-Butylidene-4,5-dihydrophthalide is an effective constituent extracted from Angelica sinensis.
Targets(IC50)	Apoptosis, Autophagy
In vitro	To investigate the neuroprotective of ligustilide (LIG) against glutamate-induced apoptosis of PC12 cells, cell viability were examined by MTT assay. Pretreatment with ligustilide (1, 5, 15 $\mu\text{mol} \cdot \text{L}^{-1}$) significantly improved cell viability. The apoptosis rate in glutamate-induced PC12 cells was 13.39%, and decreased in the presence of ligustilide (1, 5, 15 $\mu\text{mol} \cdot \text{L}^{-1}$) by 9.06%, 6.48%, 3.82%, separately. Extracellular accumulation of Ca ²⁺ induced by glutamate were significantly reduced by ligustilide.

Solubility Information

Solubility	DMSO: 1.9 mg/mL (10 mM), Sonication is recommended. (The compound is unstable in solution, please use soon.) ($< 1 \text{ mg/ml}$ refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	5.2565 mL	26.2826 mL	52.5652 mL
5 mM	1.0513 mL	5.2565 mL	10.513 mL
10 mM	0.5257 mL	2.6283 mL	5.2565 mL
50 mM	0.1051 mL	0.5257 mL	1.0513 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.

Reference

Wu Q, et al. Protective effect of ligustilide against glutamate-induced apoptosis in PC12 cells. Yao Xue Xue Bao. 2015 Feb;50(2):162-8.