

Lusianthridin

Chemical Properties

CAS No.:	87530-30-1
Formula:	C ₁₅ H ₁₄ O ₃
Molecular Weight:	242.3
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).

Biological Description

Description	Lusianthridin shows appreciable cytotoxicity against human lung cancer cell lines. It exhibits anti-migratory property at nontoxic concentrations.
Targets(IC ₅₀)	others: None
In vitro	Chromatographic separation of a methanol extract prepared from the whole plant of <i>Dendrobium brymerianum</i> led to the isolation of eight phenolic compounds. Among the isolated compounds (1-8), moscatilin (1), gigantol (3), Lusianthridin (4), and dendroflorin (6) showed appreciable cytotoxicity against human lung cancer cell lines with IC ₅₀ values of 196.7, 23.4, 65.0, and 125.8 µg/mL, respectively, and exhibited antimigratory property at nontoxic concentrations.

Solubility Information

Solubility	< 1 mg/ml refers to the product slightly soluble or insoluble
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	4.127 mL	20.636 mL	41.271 mL
5 mM	0.825 mL	4.127 mL	8.254 mL
10 mM	0.413 mL	2.064 mL	4.127 mL
50 mM	0.083 mL	0.413 mL	0.825 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

Reference

1. Cytotoxic and Antimigratory Activities of Phenolic Compounds from *Dendrobium brymerianum*. Evid Based Complement Alternat Med. 2015;2015:350410.

Inhibitors · Natural Compounds · Compound Libraries

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