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Diagnostik & molekulare Diagnostik



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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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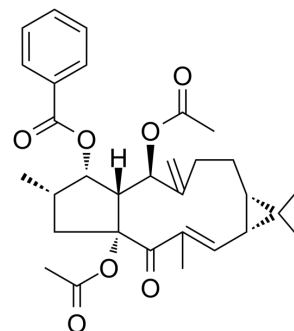
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5,15-Diacetyl-3-benzoyllathyril

Cat. No.:	HY-N0562
CAS No.:	218916-52-0
Molecular Formula:	C ₃₁ H ₃₈ O ₇
Molecular Weight:	522.63
Target:	Others
Pathway:	Others
Storage:	4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (191.34 mM; Need ultrasonic)						
	Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg	
				1 mM	1.9134 mL	9.5670 mL	19.1340 mL
				5 mM	0.3827 mL	1.9134 mL	3.8268 mL
10 mM				0.1913 mL	0.9567 mL	1.9134 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 (4.78 mM); Clear solution						

BIOLOGICAL ACTIVITY

Description	5,15-Diacetyl-3-benzoyllathyril is one of the lathyrane diterpenoids, that has anti-cancer activity.
In Vitro	5,15-Diacetyl-3-benzoyllathyril shows anticancer activity in vitro against lung cancer A549 cells and the IC ₅₀ values are 34.04±3.99 μM. Furthermore, 5,15-Diacetyl-3-benzoyllathyril can induce apoptosis in A549 cells via the mitochondrial pathway including loss of mitochondrial potential and release of cytochrome c ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

PROTOCOL

Cell Assay ^[1]	Cells are harvested during logarithmic growth phase and seeded in 96-well plates at a density of 1.5×10 ⁴ cells/mL of final volume 190 μL/well. After incubation of 24 h, 10 μL EFL3 solution of full range concentrations is added to 96-well plates. After 68 h treatment, 10 μL MTT of 10 mM is added to each well for 4 h of maintaining at 37°C. Then, the supernatant is
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removed and the crystals are dissolved with 100 μ L anhydrous DMSO each well. Subsequently, cell viability is measured by Model 550 Microplate reader at 540 nm and 655 nm as reference filter. Experiments are carried out at least thrice. The 50% inhibitory concentration (IC_{50}) is defined as the anticancer agent concentration causing 50% reduction in cell viability and calculated from the cytotoxicity curves. Cell survival is calculated with the following formula: survival (%)=(mean experimental absorbance/mean control absorbance) \times 100%.

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

REFERENCES

[1]. Zhang JY, et al. Structure identification of Euphorbia factor L3 and its induction of apoptosis through the mitochondrial pathway. *Molecules*. 2011 Apr 15;16(4):3222-31.

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

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