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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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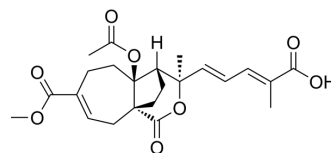
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Pseudolaric Acid B

Cat. No.:	HY-N6939
CAS No.:	82508-31-4
Molecular Formula:	C ₂₃ H ₂₈ O ₈
Molecular Weight:	432.46
Target:	HBV; Fungal; Apoptosis; Autophagy; Ferroptosis
Pathway:	Anti-infection; Apoptosis; Autophagy
Storage:	4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 50 mg/mL (115.62 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	2.3124 mL	11.5618 mL	23.1235 mL
	5 mM	0.4625 mL	2.3124 mL	4.6247 mL
	10 mM	0.2312 mL	1.1562 mL	2.3124 mL

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

In Vivo

- Add each solvent one by one: 50% PEG300 >> 50% saline
Solubility: 10 mg/mL (23.12 mM); Suspended solution; Need ultrasonic
- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
Solubility: ≥ 2.5 mg/mL (5.78 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
Solubility: ≥ 2.08 mg/mL (4.81 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: ≥ 2.08 mg/mL (4.81 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Pseudolaric Acid B is a diterpene isolated from the root of *Pseudolarix kaempferi* (pinaceae), has anti-cancer, antifungal, and antifertile activities, and shows immunosuppressive activity on T lymphocytes^{[1][2][3]}. Pseudolaric Acid B inhibits hepatitis B virus (HBV) secretion through apoptosis and cell cycle arrest. Pseudolaric Acid B induces autophagy^{[4][5]}.

CUSTOMER VALIDATION

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- ACS Infect Dis. 2023 May 4.

See more customer validations on www.MedChemExpress.com

REFERENCES

- [1]. Zhou BN, et al. Some progress on the chemistry of natural bioactive terpenoids from Chinese medicinal plants. Mem Inst Oswaldo Cruz. 1991;86 Suppl 2:219-26.
- [2]. Wang WC, et al. [Endocrine activity of pseudolaric acids A and B and their effects on sex hormones, prostaglandins, uteri, and fetuses]. Zhongguo Yao Li Xue Bao. 1991 Mar;12(2):187-90.
- [3]. Wei N, et al. The immunosuppressive activity of pseudolaric acid B on T lymphocytes in vitro. Phytother Res. 2013 Jul;27(7):980-5.
- [4]. Yu J, et al. Pseudolaric acid B inhibits the secretion of hepatitis B virus. Oncol Rep. 2017 Jan;37(1):519-525.
- [5]. Yu J, et al. Pseudolaric acid B activates autophagy in MCF-7 human breast cancer cells to prevent cell death. Oncol Lett. 2016 Mar;11(3):1731-1737.
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Caution: Product has not been fully validated for medical applications. For research use only.

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