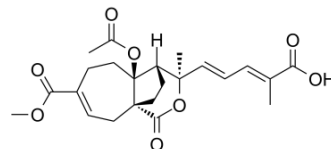


## Pseudolaric Acid B

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



### SOLVENT & SOLUBILITY

#### In Vitro

DMSO : ≥ 125 mg/mL (289.04 mM)  
\* "≥" means soluble, but saturation unknown.

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: 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* Gorden (pinaceae), has anti-cancer, antifungal, and antifertile activities, and shows immunosuppressive activity on T lymphocytes<sup>[1][2][3]</sup>. Pseudolaric Acid B inhibits hepatitis B virus (HBV) secretion through apoptosis and cell cycle arrest. Pseudolaric Acid B induces autophagy<sup>[4][5]</sup>.

### REFERENCES

- 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.
- 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.

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[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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