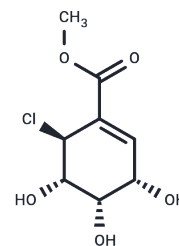


## Pericosine A

## Chemical Properties

CAS No. :	200335-68-8
Formula:	C <sub>8</sub> H <sub>11</sub> ClO <sub>5</sub>
Molecular Weight:	222.62
Storage:	Powder: -20°C for 3 years   In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



## Biological Description

Description	Pericosine A is a fungal metabolite that has been found in <i>P. byssoides</i> and has anticancer activity. It inhibits the growth of a variety of cancer cells, including breast, colon, lung, ovary, stomach, and prostate cell lines (GI50s = 0.05-24.55 μM) and increases survival in a P388 mouse xenograft model when administered at a dose of 25 mg/kg. Pericosine A inhibits EGFR by 40 to 70% when used at a concentration of 100 μg/ml. It also reacts with organosulfur compounds in skunk spray to form stable thioethers as odorless products. <sup>2</sup>
Targets(IC50)	Others, Topoisomerase

## Solubility Information

Solubility	Ethanol: Soluble Dichloromethane: Soluble Methanol: Soluble DMSO: Soluble ( < 1 mg/ml refers to the product slightly soluble or insoluble)
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## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	4.492 mL	22.4598 mL	44.9196 mL
5 mM	0.8984 mL	4.492 mL	8.9839 mL
10 mM	0.4492 mL	2.246 mL	4.492 mL
50 mM	0.0898 mL	0.4492 mL	0.8984 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.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Yamada, T., Iritani, M., Ohishi, H., et al. Pericosines, antitumour metabolites from the sea hare-derived fungus *Periconia byssoides*. Structures and biological activities. *Org. Biomol. Chem.* 5(24)3979-3986(2007)

Du, L., Munteanu, C., King, J.B., et al. An electrophilic natural product provides a safe and robust odor neutralization approach to counteract malodorous organosulfur metabolites encountered in skunk spray. *Nat. Prod.* 82(7)1989-1999(2019)

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