

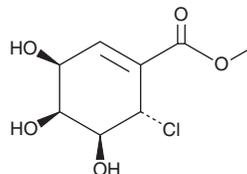
# PRODUCT INFORMATION



## Pericosine A

Item No. 29633

**CAS Registry No.:** 200335-68-8  
**Formal Name:** (3S,4S,5S,6S)-6-chloro-3,4,5-trihydroxy-1-cyclohexene-1-carboxylic acid, methyl ester  
**Synonym:** (+)-Pericosine A  
**MF:** C<sub>8</sub>H<sub>11</sub>ClO<sub>5</sub>  
**FW:** 222.6  
**Purity:** ≥70%  
**Supplied as:** A solid  
**Storage:** -20°C  
**Stability:** ≥4 years  
**Item Origin:** Fungus/Unidentified sp.



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

### Laboratory Procedures

Pericosine A is supplied as a solid. A stock solution may be made by dissolving the pericosine A in the solvent of choice, which should be purged with an inert gas. Pericosine A is soluble in ethanol, methanol, DMSO, and dichloromethane.

### Description

Pericosine A is a fungal metabolite that has been found in *P. byssoides* and has anticancer activity.<sup>1</sup> It inhibits the growth of a variety of cancer cells, including breast, colon, lung, ovary, stomach, and prostate cell lines (GI<sub>50</sub>s = 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>

### References

1. 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).
2. 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. *J. Nat. Prod.* **82(7)**, 1989-1999 (2019).

**WARNING**  
THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

**SAFETY DATA**  
This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the [complete](#) Safety Data Sheet, which has been sent via email to your institution.

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