

Product Data Sheet

Product Name: Pericosine A

Cat. No.: GC47938

Chemical Properties

Cas. No. 200335-68-8

SMILES O=C(OC)C1=C[C@H](O)[C@H](O)[C@H](O)[C@H]1Cl

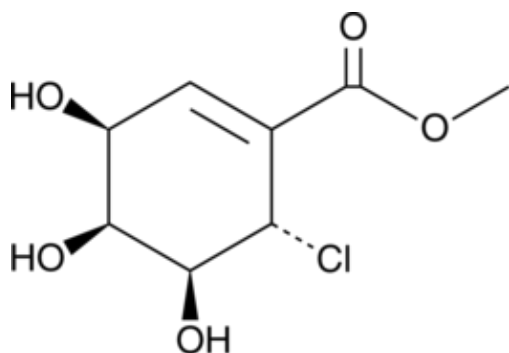
Formula C8H11ClO5 M.Wt 222.6

Solubility Dichloromethane: soluble, DMSO: soluble, Ethanol: soluble, Methanol: soluble
Storage Store at -20°C

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution: ship with blue ice. All other available size: ship with RT, or blue ice upon request.

Structure



Background

Pericosine A is a fungal metabolite that has been found in *P. byssoides* and has anticancer activity.¹ 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

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

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thioethers as odorless products.²

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)

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