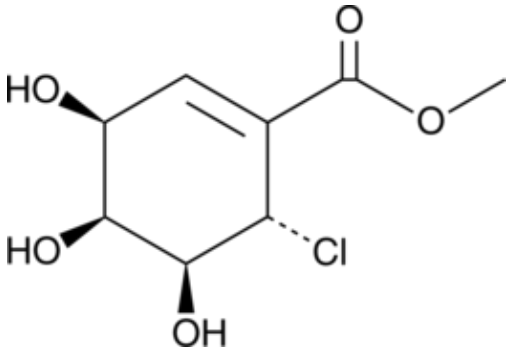
Product Data Sheet

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 (GI_{50}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

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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 activitiesOrg. 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 sprayJ. Nat. Prod.82(7)1989-1999(2019)

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