

Dihydrooroxilin A

Chemical Properties

CAS No.:	18956-18-8
Formula:	C ₁₆ H ₁₄ O ₅
Molecular Weight:	286.3
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).

Biological Description

Description	Dihydrooroxilin A has significant antifeeding activity.
Targets(IC ₅₀)	Others: None
In vitro	METHODS AND RESULTS: A bioassay-guided purification of the extracts of <i>Nothofagus dombeyi</i> and <i>N. pumilio</i> leaves yielded several triterpenes and flavonoids including 2-O-acetylmaslinic acid, 3-O-acetyl 20,24,25-trihydroxydammarane, and 3,20,24,25-tetrahydroxydammarane as new natural products. All the isolated compounds were assessed for antifeeding activity against the 5th instar larvae of <i>Ctenopsteustis obliquana</i>. CONCLUSIONS: 12-Hydroxyoleanolic lactone and pectolinarigenin from <i>N. dombeyi</i> and Dihydrooroxilin A from <i>N. pumilio</i>, showed significant antifeeding activity.

Solubility Information

Solubility	< 1 mg/ml refers to the product slightly soluble or insoluble
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.493 mL	17.464 mL	34.928 mL
5 mM	0.699 mL	3.493 mL	6.986 mL
10 mM	0.349 mL	1.746 mL	3.493 mL
50 mM	0.070 mL	0.349 mL	0.699 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

Reference

1. Insect antifeedant compounds from *Nothofagus dombeyi* and *N. pumilio*. *Phytochemistry*. 2004 Jul;65(14):2173-6.

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