

Data Sheet (Cat.No.TN1886)

Lucidin 3-O-primeveroside

Chemical Properties

CAS No.:	29706-59-0
Formula:	C ₂₆ H ₂₈ O ₁₄
Molecular Weight:	564.5
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).

Biological Description

Description	Lucidin-3-O- primeveroside, a food pigment, shows effective antifeedant against the carpet beetle. It is reported to be carcinogenic in the kidney and liver of rats. Lucidin-3-O- α -D-primeveroside displays a significant reduction of the blood glucose levels in anti-diabetic tests.
Targets(IC ₅₀)	Topoisomerase: None
In vitro	Structure-activity relationship (SAR) studies using a series of anthraquinone analogues suggested that the aldehyde group on the anthraquinone was more important than the quinone moiety for antifeedant activity against the common cutworm (<i>Spodoptera litura</i>). High levels of nordamnacanthal were found in the seed leaf stage and in callus tissue induced from seedlings of <i>G. aparine</i> , but its concentration decreased with plant development. Since these compounds are natural pigments for dyeing textiles, we also evaluated the antifeedant activity against the carpet beetle (<i>Attagenus japonicus</i>), a textile pest was also evaluated. While nordamnacanthal had strong antifeedant activity against the common cutworm, it did not show any antifeedant activity against the carpet beetle[1]

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	1.771 mL	8.857 mL	17.715 mL
5 mM	0.354 mL	1.771 mL	3.543 mL
10 mM	0.177 mL	0.886 mL	1.771 mL
50 mM	0.035 mL	0.177 mL	0.354 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. Antifeedant activity of an anthraquinone aldehyde in *Galium aparine* L. against *Spodoptera litura* F. *Phytochemistry*. 2002 May;60(2):163-6.

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