

Erysotramidine

Chemical Properties

CAS No.:	52358-58-4
Formula:	C ₁₉ H ₂₁ NO ₄
Molecular Weight:	327.4
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).

Biological Description

Description	(+)-Erysotramidine shows potent dose dependant antifeedant activity at concentrations 3100 ppm.
Targets(IC ₅₀)	Others: None
In vitro	METHODS AND RESULTS: The antifeedant activities of the Erythrina alkaloids from the seeds, seed pods and flowers of <i>Erythrina latissima</i> were investigated in laboratory dual-choice bioassays using third-instar <i>Spodoptera littoralis</i> (Boisduval) larvae. The new compound (+)-11-methoxy-10-oxoerysotramidine (1) from the flowers, showed potent dose dependant activity at concentration 3 500 ppm while (+)-10,11-dioxoerysotramidine (2) also new from the flowers showed potent dose dependant activity at concentration 3100 ppm. Three known compounds (+)-erysotrine, (+)-erysotramidine, (+)-erythraline, (+)-11-hydroxyerysotramidine showed potent dose dependant antifeedant activity at concentrations 3100 ppm while (+)-10,11-dioxoerysotrine and (+)-11b-hydroxyerysotramidine also a known compounds showed potent dose dependant antifeedant activity at concentrations 3 300 ppm. CONCLUSIONS: Three known compounds (+)-11-methoxyerysotramidine, (+)-8-oxoerythraline and (+)-15(16)b-D-glucoerysodine showed no appreciable change in antifeedant activity with concentration change.

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	3.054 mL	15.272 mL	30.544 mL
5 mM	0.611 mL	3.054 mL	6.109 mL
10 mM	0.305 mL	1.527 mL	3.054 mL
50 mM	0.061 mL	0.305 mL	0.611 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 activities of the erythraline alkaloids from *Erythrina latissima* against *Spodoptera littoralis* (Lepidoptera noctuidae). Records of Natural Products, 2009 ,3 (2) :96-103.

Inhibitors · Natural Compounds · Compound Libraries

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