

Cynatratoside A

Chemical Properties

CAS No.:	97399-96-7
Formula:	C ₂₈ H ₄₀ O ₈
Molecular Weight:	504.62
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).

Biological Description

Description	Cynatratoside A and Cynanversicoside C are therefore potential candidate drugs for use against <i>Ichthyophthirius multifiliis</i> .
Targets(IC ₅₀)	Antifection: None
In vitro	METHODS AND RESULTS: The present study aims to evaluate the antiparasitic activity of active components from <i>Cynanchum paniculatum</i> against <i>Ichthyophthirius multifiliis</i> . The antiparasitic activities of two bioassay-guided fractionated compounds from <i>C. paniculatum</i> identified as Cynatratoside A and Cynanversicoside C, by comparing spectral data (NMR and ESI-MS) with literature values, were evaluated by in vitro assay. These showed that both could kill theronts of <i>I. multifiliis</i> at a concentration of 10.0 mg L ⁻¹ , with the median effective concentration (EC ₅₀) values of 4.6 mg L ⁻¹ and 5.2 mg L ⁻¹ for Cynatratoside A and Cynanversicoside C, respectively. Encysted tomites were killed at concentrations of 8.0 mg L ⁻¹ with both compounds. In vivo experiments demonstrated that fish treated with both compounds at 15.0 mg L ⁻¹ carried significantly fewer parasites than controls (P < 0.05). CONCLUSIONS: There were no mortalities among treated fish group compared with 75% mortality of untreated fish. Cynatratoside A and Cynanversicoside C are therefore potential candidate drugs for use against <i>I. multifiliis</i> .

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	1.982 mL	9.908 mL	19.817 mL
5 mM	0.396 mL	1.982 mL	3.963 mL
10 mM	0.198 mL	0.991 mL	1.982 mL
50 mM	0.040 mL	0.198 mL	0.396 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. Activity of two extracts of *Cynanchum paniculatum* against *Ichthyophthirius multifiliis* theronts and tomonts. *Parasitology*. 2017 Feb;144(2):179-185.

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