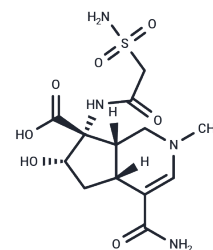


Altemicidin

Chemical Properties

CAS No. :	125399-82-8
Formula:	C ₁₃ H ₂₀ N ₄ O ₇ S
Molecular Weight:	376.38
Appearance:	no data available
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year



Biological Description

Description	Altemicidin is a monoterpene alkaloid originally isolated from <i>S. siوياensis</i> with acaricidal and anticancer activities. It is acaricidal to two-spotted spider mites (<i>T. urticae</i>) in a greenhouse pot test at concentrations of 10 and 100 ppm. Altemicidin inhibits the growth of murine L1210 lymphocytic leukemia and IMC carcinoma cells (IC ₅₀ s = 0.84 and 0.82 µg/ml, respectively). It is toxic to mice with an LD ₅₀ value of 0.3 mg/kg.
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Solubility Information

Solubility	Ethanol: Soluble (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.6569 mL	13.2844 mL	26.5689 mL
5 mM	0.5314 mL	2.6569 mL	5.3138 mL
10 mM	0.2657 mL	1.3284 mL	2.6569 mL
50 mM	0.0531 mL	0.2657 mL	0.5314 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Reference

Takahashi, A., Kurasawa, S., Ikeda, D., et al. Altemicidin, a new acaricidal and antitumor substance. I. Taxonomy, fermentation, isolation and physico-chemical and biological properties. *J. Antibiot. (Tokyo)* 42(11):1556-1561 (1989)

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