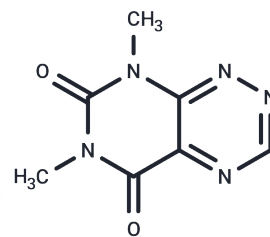


Fervenuin

Chemical Properties

CAS No. :	483-57-8
Formula:	C ₇ H ₇ N ₅ O ₂
Molecular Weight:	193.16
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



Biological Description

Description	Fervenuin is isolated from a nematicidal actinomycete Streptomyces sp. CMU-MH021 has nematicidal activity. CMU-MH021 inhibits egg hatch (MICs: 30 µg/mL) and J2 mortality (MICs: 120 µg/mL) of <i>M. incognita</i> .
Targets (IC ₅₀)	Parasite
In vitro	Fervenuin shows a killing effect on second-stage nematode juveniles of <i>M. incognita</i> up to 100% after incubation for 96 h at the concentration of 250 µg/mL. Fervenuin displays a broad range of biological activities, e.g., in vitro antibacterial, antiparasitic, antifungal, and antitumor properties.

Solubility Information

Solubility	DMSO: 55 mg/mL (284.74 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	5.1771 mL	25.8853 mL	51.7706 mL
5 mM	1.0354 mL	5.1771 mL	10.3541 mL
10 mM	0.5177 mL	2.5885 mL	5.1771 mL
50 mM	0.1035 mL	0.5177 mL	1.0354 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.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Ruanpanun P, et al. Nematicidal activity of Fervenulin isolated from a nematicidal actinomycete,

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Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481