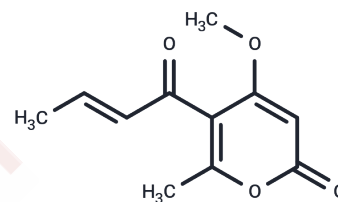


Pyrenocine A

Chemical Properties

CAS No. :	76868-97-8
Formula:	C ₁₁ H ₁₂ O ₄
Molecular Weight:	208.213
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	Pyrenocine A is a fungal metabolite that has been found in <i>P. terrestris</i> and has diverse biological activities. It inhibits the asexual spore germination of the plant pathogenic fungi <i>F. oxysporum</i> , <i>F. solani</i> , <i>M. hiemalis</i> , and <i>R. stolonifer</i> (EC ₅₀ s = 14, 20, 20, and 25 µg/ml, respectively). Pyrenocine A is active against <i>B. subtilis</i> , <i>S. aureus</i> , and <i>E. coli</i> (IC ₅₀ s = 30, 45, and 200 µg/ml, respectively). It inhibits onion seedling elongation (EC ₅₀ = 4 µg/ml). Pyrenocine A is also a phytotoxin that inhibits lettuce seed germination and rice seedling elongation. ^{2,3}
Targets (IC ₅₀)	Others

Solubility Information

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

	1mg	5mg	10mg
1 mM	4.8028 mL	24.0142 mL	48.0284 mL
5 mM	0.9606 mL	4.8028 mL	9.6057 mL
10 mM	0.4803 mL	2.4014 mL	4.8028 mL
50 mM	0.0961 mL	0.4803 mL	0.9606 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

Sparace, S.A., Reeleder, R.D., and Khanizadeh, S. Antibiotic activity of the pyrenocines *Can. J. Microbiol.* 33(4)327-330(1987)

Sato, H., Konoma, K., and Sakamura, S. Phytotoxins produced by onion pink root fungus, *Pyrenochaeta terrestris* *Agric. Biol. Chem.* 43(11)2409-2411(1979)

Sato, H., Konoma, K., Sakamura, S., et al. X-Ray crystal structure of pyrenocine A, a phytotoxin from *Pyrenochaeta terrestris* *Agric. Biol. Chem.* 45(3)795-797(1981)

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