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Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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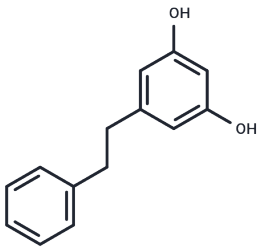
Data Sheet (Cat.No.TN3861)

TargetMol

Dihydropinosylvin

Chemical Properties



CAS No. : 14531-52-3

Formula: C14H14O2

Molecular Weight: 214.26

Appearance: no data available

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Biological Description

Description	Dihydropinosylvinin is an phytoalexin, it shows antifungal activity against Cladosporium cladosporioides, Botryodiplodia theobromae, Aspergillus niger and Penicillium schlerotgenum, it also exhibits strong antibacterial activity against Bacillus cereus, Staphylococcus aureus, Pseudomonas aeruginosa and Escherichia coli. Dihydropinosylvin and batatasin IV can inhibit the germination of seeds of and root elongation in young seedlings of Sorghum bicolor.
Targets(IC50)	Anti-infection
In vitro	Dihydropinosylvin, batatasin IV, demethylbatatasin IV and batatasin III were found in the water yam (Dioscorea alata) which had been inoculated with Botryodiplodia theobromae or treated with mercuric chloride. Following induction, transient increases were observed in the first three compounds and this was preceded by a transient increase in the activity of phenylalanine ammonia lyase but not tyrosine ammonia lyase activity. CONCLUSIONS: In mercuric chloride treated tubers an increase in polyphenol oxidase was also observed. The dormancy inducing compounds Dihydropinosylvin and batatasin IV were also found to inhibit the germination of seeds of and root elongation in young seedlings of Sorghum bicolor . By comparison, demethylbatatasin IV was not inhibitory.

Solubility Information

Solubility	DMSO: 2.14 mg (10 mM, insoluble or slightly soluble) (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	4.6672 mL	23.3361 mL	46.6723 mL
5 mM	0.9334 mL	4.6672 mL	9.3345 mL
10 mM	0.4667 mL	2.3336 mL	4.6672 mL
50 mM	0.0933 mL	0.4667 mL	0.9334 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

Induction of pal activity and dihydrostilbene phytoalexins in Dioscorea alata and their plant growth inhibitory properties Phytochemistry, 1989, 28(10):2621-5.

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