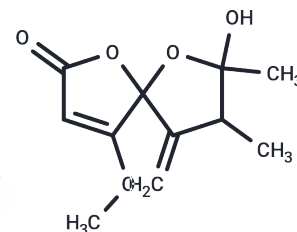


Papyracillic Acid

Chemical Properties

| | |
|-------------------|---|
| CAS No. : | 179308-49-7 |
| Formula: | C ₁₁ H ₁₄ O ₅ |
| Molecular Weight: | 226.23 |
| 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 | Papyracillic acid is a fungal metabolite and a derivative of penicillic acid originally isolated from <i>L. papyraceum</i> and has antibiotic, antifungal, and phytotoxic activities. It is active against the bacteria <i>X. campestris</i> and <i>B. subtilis</i> and the fungus <i>C. tropicalis</i> in a disc assay when used at a concentration of 5 µg/disc. Papyracillic acid (1 mg/ml) induces necrotic lesion formation in a panel of 10 plants. |
| Targets(IC50) | Others |

Solubility Information

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

Preparing Stock Solutions

| | 1mg | 5mg | 10mg |
|-------|-----------|------------|------------|
| 1 mM | 4.4203 mL | 22.1014 mL | 44.2028 mL |
| 5 mM | 0.8841 mL | 4.4203 mL | 8.8406 mL |
| 10 mM | 0.442 mL | 2.2101 mL | 4.4203 mL |
| 50 mM | 0.0884 mL | 0.442 mL | 0.8841 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

Shan, R., Anke, H., Stadler, M., et al. Papyracillic acid, a new penicillic acid analogue from the Ascomycete *Lachnum papyraceum* *Tetrahedron* 52(30)10249-10254(1996)

Evidente, A., Berestetskiy, A., Cimmino, A., et al. Papyracillic acid, a phytotoxic 1,6-dioxaspiro[4,4]nonene produced by *Ascochyta agropyrina* Var. *nana*, a potential mycoherbicide for *Elytrigia repens* biocontrol. *J. Agric. Food Chem.* 57(23)11168-11173(2009)

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