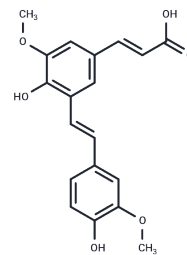


Poacic acid

Chemical Properties

| | |
|-------------------|---|
| CAS No. : | 160097-32-5 |
| Formula: | C ₁₉ H ₁₈ O ₆ |
| Molecular Weight: | 342.34 |
| 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 | Poacic Acid is a plant-derived stilbenoid exhibiting antifungal activity by localizing to the yeast cell wall and disrupting the production and assembly of β -1,3-glucan in fungal cell walls. It shows fungicidal activity against <i>Saccharomyces cerevisiae</i> and plasma membrane-compromised <i>Candida albicans</i> mutants [1]. |
| Targets(IC50) | Antifungal |
| In vitro | Poacic Acid demonstrates significant growth inhibition against <i>Saccharomyces cerevisiae</i> at concentrations of 256 μ g/mL or higher over 48 hours (0-512 μ g/mL). It exhibits fungicidal properties against <i>Candida albicans</i> mutants lacking the ERG11 and ERG3 genes. Additionally, at 1 mM concentration over 1-42 hours, Poacic Acid increases chitin production and alters its distribution in the cell walls of <i>Saccharomyces cerevisiae</i> . The inhibitory effect on <i>Saccharomyces cerevisiae</i> at 512 μ g/mL over 36 hours is reduced in the presence of additional β -glucan, chitin, or metal ions. [1] |

Preparing Stock Solutions

| | 1mg | 5mg | 10mg |
|-------|-----------|------------|------------|
| 1 mM | 2.9211 mL | 14.6054 mL | 29.2107 mL |
| 5 mM | 0.5842 mL | 2.9211 mL | 5.8421 mL |
| 10 mM | 0.2921 mL | 1.4605 mL | 2.9211 mL |
| 50 mM | 0.0584 mL | 0.2921 mL | 0.5842 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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