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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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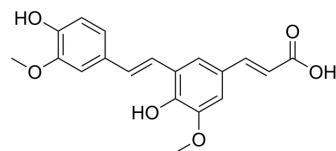
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Poacic acid

Cat. No.:	HY-163462
CAS No.:	160097-32-5
Molecular Formula:	C ₁₉ H ₁₈ O ₆
Molecular Weight:	342.34
Target:	Fungal
Pathway:	Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Poacic Acid is a plant-derived stilbenoid with an antifungal activity. Poacic Acid localizes to the yeast cell wall and disrupts the production and assembly of β -1,3-glucan in the fungal cell walls. Poacic Acid exhibits fungicidal activity to <i>Saccharomyces cerevisiae</i> and plasma membrane-compromised <i>Candida albicans</i> mutants ^[1] .
In Vitro	<p>Poacic Acid (0-512 μg/ml 48h) exhibits significant growth inhibition of <i>Saccharomyces cerevisiae</i> at concentrations at or above 256 μg/mL. Poacic Acid also shows bactericidal effect on <i>Candida albicans</i> mutants with ERG11 and ERG3 gene deletion^[1].</p> <p>Poacic Acid (1 mM; 1-42 h) increases the production of chitin in the cell wall of <i>Saccharomyces cerevisiae</i> and altered its distribution^[1].</p> <p>Poacic Acid (512 μg/mL; 36 h) has a reduced inhibitory effect on <i>Saccharomyces cerevisiae</i> in the presence of additional β-glucan or chitin or metal ions^[1].</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p>

REFERENCES

[1]. Yona A, et al. Poacic Acid, a Plant-Derived Stilbenoid, Augments Cell Wall Chitin Production, but Its Antifungal Activity Is Hindered by This Polysaccharide and by Fungal Essential Metals. *Biochemistry*. 2024 Apr 16;63(8):1051-1065.

Caution: Product has not been fully validated for medical applications. For research use only.

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