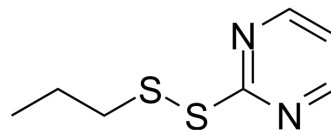


Antifungal agent 37

Cat. No.:	HY-151280
CAS No.:	2833772-92-0
Molecular Formula:	C ₇ H ₁₀ N ₂ S ₂
Molecular Weight:	186.3
Target:	Bacterial; Fungal
Pathway:	Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Antifungal agent 37 is a heterocyclic disulfide, with antifungal activity ^[1] .
In Vitro	<p>Antifungal agent 37 (50 µg/mL) shows anti-fungal activity against 10 pathogenic fungi with inhibition rates of 65.46% (<i>R. solani</i>), 98.56% (<i>S. sclerotiorum</i>), 41.99% (<i>B. cinerea</i>), 66.80% (<i>F. graminearum</i>), 36.70% (<i>M. oryzae</i>), 28.26% (<i>P. capsici</i>), 100% (<i>A. flavus</i>), 57.35% (<i>P. expansum</i>), 89.64% (<i>M. fructicola</i>), 59.03% (<i>R. stolonifer</i>), respectively^[1].</p> <p>Antifungal agent 37 inhibits fungus growth with EC₅₀s of 10.67 µg/mL (<i>R. solani</i>), 10.10 µg/mL (<i>S. sclerotiorum</i>), 23.49 µg/mL (<i>F. graminearum</i>), >10 µg/mL (<i>A. flavus</i>), 9.71 µg/mL (<i>M. fructicola</i>), 21.54 µg/mL (<i>R. stolonifer</i>), respectively^[1].</p> <p>Antifungal agent 37 shows an excellent antibacterial effect on <i>X. oryzae</i>, with an MIC value of 1.56 µg/mL, which was better than the positive control drug TC^[1].</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p>
In Vivo	<p>Antifungal agent 37 (200 µg/mL; sprinkling; for 14 d) inhibits rice bacterial blight in vivo^[1].</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p>

REFERENCES

[1]. Wang JR, et al. Allicin-Inspired Heterocyclic Disulfides as Novel Antimicrobial Agents. *J Agric Food Chem*. 2022 Sep 6.

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

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