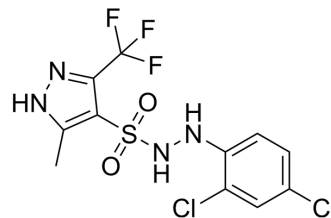


SDH-IN-4

Cat. No.:	HY-149323
Molecular Formula:	C ₁₁ H ₉ Cl ₂ F ₃ N ₄ O ₂ S
Molecular Weight:	389.18
Target:	Fungal
Pathway:	Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	SDH-IN-4 (compound B6) is a selective inhibitor against succinate dehydrogenase (SDH) with an IC ₅₀ value of 0.28 µg/mL. SDH-IN-4 has highly efficient and broad-spectrum antifungal activity, against <i>R. solani</i> with an EC ₅₀ value of 0.23 µg/mL ^[1] .
In Vitro	SDH-IN-4 (10 µg/mL, 3-5 days) inhibits mycelium growth of fungal <i>R. solani</i> , <i>F. graminearum</i> , <i>B. cinerea</i> and <i>A. solani</i> ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.
In Vivo	SDH-IN-4 (100 µg/mL, 5 days) inhibits <i>R. solani</i> in detached rice leaves was 87.48% ^[1] . SDH-IN-4 (20 µg/mL, 0.5-3 h) inhibits the growth and development of mycelia of <i>R. solani</i> and causes serious damage to the mycelial cell membrane ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Chai JQ, et al. Potential Succinate Dehydrogenase Inhibitors Bearing a Novel Pyrazole-4-sulfonohydrazide Scaffold: Molecular Design, Antifungal Evaluation, and Action Mechanism. *J Agric Food Chem.* 2023 Jun 21;71(24):9266-9279.

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

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