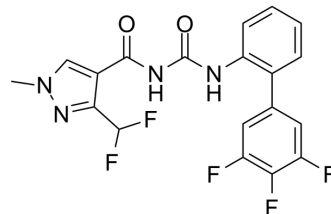


SDH-IN-12

Cat. No.:	HY-163284
CAS No.:	3027210-28-9
Molecular Formula:	C ₁₉ H ₁₃ F ₅ N ₄ O ₂
Molecular Weight:	424.32
Target:	Succinate Dehydrogenase; Fungal
Pathway:	Metabolic Enzyme/Protease; Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	SDH-IN-12 (compound 9b) is a succinate dehydrogenase inhibitor, which exhibits activity against <i>S. sclerotiorum</i> and <i>C. arachidicola</i> , with EC ₅₀ s of 0.97 and 2.07 μM, respectively. SDH-IN-12 reveals no significant herbicidal activity against monocotyledonous and dicotyledonous plants ^[1] .
In Vitro	SDH-IN-12 (50 μM) exhibits fungicidal activities against <i>S. sclerotiorum</i> (98%), <i>Alternaria solani</i> (71%), <i>B. cinerea</i> (50%), <i>R. solani</i> (90%) and <i>C. arachidicola</i> (90%) ^[1] . SDH-IN-12 (10 μM) destroys ultrastructure of <i>S. sclerotiorum</i> , results in contraction and obvious collapse of the mycelial surface ^[1] . SDH-IN-12 reveals good bioavailability with a plasma protein binding ability (PPB) < 90% ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Sun NB, et al., Novel Pyrazole Acyl(thio)urea Derivatives Containing a Biphenyl Scaffold as Potential Succinate Dehydrogenase Inhibitors: Design, Synthesis, Fungicidal Activity, and SAR. *J Agric Food Chem.* 2024 Feb 7;72(5):2512-2525.

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

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