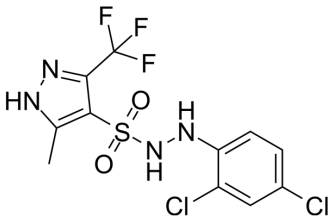
SDH-IN-4

Cat. No.:	HY-149323
CAS No.:	2982993-88-2
Molecular Formula:	$C_{11}H_9Cl_2F_3N_4O_2S$
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 R. solani 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 R. solani, F. graminearum, B. cinerea and A. solani[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 R. solani 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 R. solani 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.

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