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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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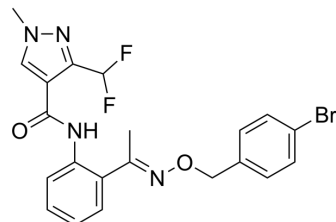
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SDH-IN-15

Cat. No.:	HY-158321
Molecular Formula:	C ₂₁ H ₁₉ BrF ₂ N ₄ O ₂
Molecular Weight:	477.3
Target:	Fungal; Succinate Dehydrogenase
Pathway:	Anti-infection; Metabolic Enzyme/Protease
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	SDH-IN-15 (Compound 5e) is an inhibitor of succinate dehydrogenase (SDH) (IC ₅₀ =2.04 μM). SDH-IN-15 has significant antifungal activity. SDH-IN-15 blocks the mitochondrial respiratory chain of the fungus through inhibition of SDH, resulting in fungal death ^[1] .
In Vitro	SDH-IN-15 shows antifungal activity of EC ₅₀ =0.039 μg/mL (<i>R. solani</i>); 0.426 μg/mL (<i>S. sclerotiorum</i>); and 3.482 μg/mL (<i>B. cinerea</i>), respectively. Superior to Boscalid (HY-119976) and Fluxapyroxad (HY-135549) ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.
In Vivo	SDH-IN-15 (100 μg/mL; 5 days) shows a significant inhibitory effect on the growth of <i>R. solani</i> on rice leaves with a protection efficiency of 86.8%, which is significantly better than the control drugs Boscalid (HY-119976) (68.1%) and Fluxapyroxad (HY-135549) (80.6%) ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Luo B, et al. Novel Pyrazole-4-Carboxamide Derivatives Containing Oxime Ether Group as Potential SDHIs to Control *Rhizoctonia solani*. *J Agric Food Chem*. 2024 May 1;72(17):9599-9610.

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

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