

SDH-IN-3

Cat. No.:	HY-155004
CAS No.:	2805297-11-2
Molecular Formula:	C ₁₅ H ₁₁ F ₂ N ₃ OS
Molecular Weight:	319.33
Target:	Antibiotic; Fungal
Pathway:	Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	SDH-IN-3 is a succinate dehydrogenase (SDH) inhibitor with an IC ₅₀ of 7.2 µg/mL. SDH-IN-3 exhibits excellent antifungal activities against <i>Nigrospora oryzae</i> with an EC ₅₀ of 1.9 µg/mL. SDH-IN-3 can be used for anti-infection research ^[1] .
IC₅₀ & Target	IC ₅₀ : 7.2 mg/L succinate dehydrogenase (SDH) ^[1]
In Vitro	<p>SDH-IN-3(Compound T6) (40 µg/mL; 6-7 days) has in vivo protective and curative activities against rice infected with <i>N.oryzae</i> mycelia 81.5% and 43.0%, respectively^[1].</p> <p>SDH-IN-3 (0-40 µg/mL; 14-80 hours) significantly inhibits the growth of <i>N.oryzae</i> mycelia and hinders spore germination and germ tube elongation^[1].</p> <p>SDH-IN-3(0-20 µg/mL; 12-36 hours) affects the mycelium membrane integrity of <i>N.oryzae</i> mycelia by increasing cell membrane permeability and causing peroxidation of cellular lipids^[1].</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p>

REFERENCES

[1]. Zhang C, et.al. Design, Synthesis, and Study of the Dual Action Mode of Novel N-Thienyl-1,5-disubstituted-4-pyrazole Carboxamides against *Nigrospora oryzae*. *J Agric Food Chem*. 2023 May 17;71(19):7210-7220.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA