



# SZABO SCANDIC

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## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



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### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

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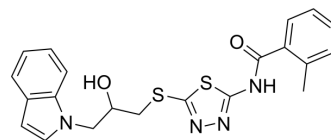
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## SDH-IN-14

Cat. No.:	HY-161504
Molecular Formula:	C <sub>21</sub> H <sub>20</sub> N <sub>4</sub> O <sub>2</sub> S <sub>2</sub>
Molecular Weight:	424.54
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

<b>Description</b>	SDH-IN-14 (Compound Z2) is an inhibitor of succinate dehydrogenase (SDH). SDH-IN-14 has antifungal activity (EC <sub>50</sub> =2.7 μg/mL) against <i>B.cinerea</i> . SDH-IN-14 acts by disrupting the integrity of the cell wall and cell membrane <sup>[1]</sup> .
<b>In Vitro</b>	SDH-IN-14 (0-100 μg/mL; 12 h) in <i>B.cinerea</i> reveals that cell membrane permeability increased with increasing concentration <sup>[1]</sup> . SDH-IN-14 (0-200 μg/mL; 10 h) in <i>B.cinerea</i> shows an increase in MDA content with increasing concentration and oxidative damage to the cell membrane <sup>[1]</sup> . SDH-IN-14 (12.5-100 μg/mL; 24 h) in <i>B.cinerea</i> shows a concentration-dependent inhibition of SDH activity <sup>[1]</sup> . SDH-IN-14 shows antifungal activity of inhibition rat=96.7% ( <i>B.cinerea</i> ); 52.6% ( <i>R.solani</i> ); 69.9% ( <i>P.capsici</i> ); 59.2% ( <i>S.sclerotiorum</i> ); 34.5% ( <i>F.graminearum</i> ); 70.6% ( <i>Tomato Botrytis cinerea</i> ); 15.0% ( <i>F.asiaticum</i> ), respectively <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.
<b>In Vivo</b>	SDH-IN-14 (100; 200 μg/mL) shows good antifungal activity on blueberry leaves, superior to Azoxystrobin (HY-B0849) and Fluopyram (HY-119459) <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

## REFERENCES

[1]. He B, et al. Antifungal Activity of Novel Indole Derivatives Containing 1,3,4-Thiadiazole. *J Agric Food Chem.* 2024 May 8;72(18):10227-10235.

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

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