



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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### Lieferung & Zahlungsart

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### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

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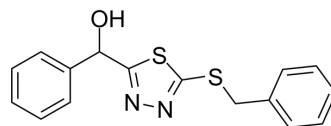
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## T3SS-IN-5

Cat. No.:	HY-158320
Molecular Formula:	C <sub>16</sub> H <sub>14</sub> N <sub>2</sub> OS <sub>2</sub>
Molecular Weight:	314.43
Target:	Bacterial
Pathway:	Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

<b>Description</b>	T3SS-IN-5 (Compound F9) is a specific inhibitor of the type III secretion system (T3SS). T3SS-IN-5 reduces bacterial pathogenicity without affecting bacterial viability by inhibiting the expression of genes associated with T3SS <sup>[1]</sup> .								
<b>In Vitro</b>	<p>T3SS-IN-5 (200 μM; 48 h) has no statistically significant effect on the viability of Xcc<sup>[1]</sup>.</p> <p>T3SS-IN-5 (200 μM; 5 d) causes a significant reduction in Xcc-jx-6-induced hypersensitive response (HR) in <i>Nicotiana benthamiana</i><sup>[1]</sup>.</p> <p>T3SS-IN-5 (200 μM; 4-7 d) reduces the ulcerative symptoms of orach orange and is more effective than bismethiazol at the same concentration<sup>[1]</sup>.</p> <p>T3SS-IN-5 (200 μM; 16 h) significantly reduces the relative incidence of Xcc<sup>[1]</sup>.</p> <p>T3SS-IN-5 (200 μM; 48 h-5 d) does not affect other virulence factors of Xcc, including extracellular enzymes activity, EPS activity, motility, and biofilm formation<sup>[1]</sup>.</p> <p>T3SS-IN-5 (100-200 μM; 4 d) combines with <i>Burkholderia anthina</i> hN-8 can further improve the inhibition of Xcc<sup>[1]</sup>.</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p> <p><b>RT-PCR<sup>[1]</sup></b></p> <table border="1"> <tr> <td>Cell Line:</td> <td>hrp cluster</td> </tr> <tr> <td>Concentration:</td> <td>200 μM</td> </tr> <tr> <td>Incubation Time:</td> <td>16 h</td> </tr> <tr> <td>Result:</td> <td>Significantly reduced the expression levels of key T3SS genes (hrpG, hrpX, hrpE, hrcC, hrcT, and hpa1) in the Xcc. Significantly reduced the expression of the critical disease susceptibility gene, <i>Citrus sinensis</i> lateral organ boundary 1 (CsLOB1).</td> </tr> </table>	Cell Line:	hrp cluster	Concentration:	200 μM	Incubation Time:	16 h	Result:	Significantly reduced the expression levels of key T3SS genes (hrpG, hrpX, hrpE, hrcC, hrcT, and hpa1) in the Xcc. Significantly reduced the expression of the critical disease susceptibility gene, <i>Citrus sinensis</i> lateral organ boundary 1 (CsLOB1).
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### REFERENCES

[1]. Zhang YQ, et al. Design and Synthesis of Mandelic Acid Derivatives for Suppression of Virulence via T3SS against Citrus Canker. *J Agric Food Chem.* 2024 May 1;72(17):9611-9620.

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

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