## T3SS-IN-5

**BIOLOGICAL ACTIVITY** 

Description

In Vitro

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

Inhibitors

**Product** Data Sheet

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T3SS-IN-5 (Compound F9) is a pathogenicity without affectin	specific inhibitor of the type III secretion system (T3SS). T3SS-IN-5 reduces bacterial g bacterial viability by inhibiting the expression of genes associated with T3SS <sup>[1]</sup> .	
T3SS-IN-5 (200 μM; 48 h) has n	o statistically significant effect on the viability of Xcc <sup>[1]</sup> .	
T3SS-IN-5 (200 $\mu$ M; 5 d) causes benthamiana <sup>[1]</sup> .	a significant reduction in Xcc-jx-6-induced hypersensitive response (HR) in Nicotiana	
T3SS-IN-5 (200 $\mu$ M; 4-7 d) reduses a concentration <sup>[1]</sup> .	ces the ulcerative symptoms of orach orange and is more effective than bismerthiazol at the	
T3SS-IN-5 (200 μM; 16 h) signif	icantly reduces the relative incidence of Xcc <sup>[1]</sup> .	
T3SS-IN-5 (200 $\mu\text{M};$ 48 h-5 d) d activity, motility, and biofilm f	oes not affect other virulence factors of Xcc, including extracellular enzymes activity, EPS ormation $^{[1]}$ .	
T3SS-IN-5 (100-200 μM; 4 d) cc	mbines with Burkholderia anthina hN-8 can further improve the inhibition of ${\sf Xcc}^{[1]}$ .	
MCE has not independently co	nfirmed the accuracy of these methods. They are for reference only.	
RT-PCR <sup>[1]</sup>		
Cell Line:	hrp cluster	

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Concentration:	200 μΜ
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, Citrus sinensis lateral organ boundary 1 (CsLOB1).

## 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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