## Antibacterial agent 141

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Cat. No.: CAS No.: Molecular Formula: Molecular Weight: Target: Pathway: Storage:	HY-149983 2930013-56-0 C <sub>23</sub> H <sub>27</sub> ClN <sub>2</sub> O <sub>3</sub> 414.93 Bacterial Anti-infection Please store the product under the recommended conditions in the Certificate of Analysis.	
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Product Data Sheet

BIOLOGICAL ACTIV			
Description	Antibacterial agent 141 (Compound B14) has antibacterial activity against four plant pathogens Xoo, Xac, Psa and Cmm, with an EC <sub>50</sub> value of 1.28 μM. Antibacterial agent 141 can inhibit the formation of cell membrane and change cell permeability.		
Description	Antibacterial agent 141 si Antibacterial agent 141 ir Antibacterial agent 141 d Antibacterial agent 141 d Antibacterial agent 141 si Antibacterial agent 141 is Antibacterial agent 141 is	ignificantly induces cell membrane rupture in Xoo bacteria <sup>[1]</sup> . increases bacterial membrane permeability in a concentration-dependent manner in Xoo bacteria <sup>[1]</sup> amages the cell membrane surface in Xoo bacteria <sup>[1]</sup> . 3.2, 6.4 µM) significantly reduces the expression of ACC, ACP and Fab family genes in Xoo bacteria <sup>[1]</sup> . ignificantly suppresses the formation of Xoo biofilm with the increase of concentration <sup>[1]</sup> . i low toxic to HepG2 and HK-2 cell <sup>[1]</sup> . 0.64-5.12 µM; 3-30 h) significantly inhibits the growth of Xoo bacteria <sup>[1]</sup> . tly confirmed the accuracy of these methods. They are for reference only. Xoo bacteria 3.2, 6.4 µM Significantly reduced the expression of ACC, ACP and Fab family genes in Xoo bacteria. Xoo bacteria 0.64, 1.28, 2.56, 5.12 µM 3, 6, 9, 12, 15, 18, 21, 24, 27, 30 h Had a slight inhibitory effect on bacterial growth with the concentration of 0.64, 1.28, 2.56	
		$\mu$ M. Inhibited the growth of bacteria more obviously when the drug concentration reached 5.12 $\mu$ M.	

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In Vivo

Antibacterial agent 141 (200 μg/mL; 7 days; single dose) is 4.64% and 43.33% of curative and protective activity toward bacterial blight, respectively<sup>[1]</sup>.

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

## REFERENCES

[1]. Liu SS, et al. Novel spiro[chromanone-2,4'-piperidine]-4-one derivatives as potential inhibitors of fatty acid synthesis in pathogens: Design, synthesis, and biological evaluation. Eur J Med Chem. 2023 Mar 15;250:115215.

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

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