## Product Data Sheet

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## Antibacterial agent 207

Cat. No.:	HY-162451	
Molecular Formula:	$C_{61}H_{56}F_{12}N_8O_3P_2Ru$	
Molecular Weight:	1340.15	_
Target:	Reactive Oxygen Species; Bacterial; Glucosidase	
Pathway:	Immunology/Inflammation; Metabolic Enzyme/Protease; NF-κB; Anti-infection	
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.	

Description	Antibacterial agent 207 (Compound Ru1) has antibacterial activity against S. aureus (MIC: 1 μg/mL), and low resistance frequencies. Antibacterial agent 207 destroys the bacterial cell membrane, promote production of ROS in bacteria <sup>[1]</sup> .			
In Vitro	Antibacterial agent 207 (1 and 2 μg/mL) shows damage on bacterial membrane of S. aureus (PI staining), and induces release of β-galactosidase <sup>[1]</sup> . Antibacterial agent 207 (1 and 2 μg/mL, 2 h) cause a range of oxidative stress damage, induces ROS in S. aureus <sup>[1]</sup> . Antibacterial agent 207 (0.25 or 0.5 μg/mL, 48 h) inhibit the secretion of α-toxin and bacterial biofilm formation in S. aureus <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.			
In Vivo	Antibacterial agent 207 (5 mg/kg, 5 μL, injected at the right gastropoda) shows anti-infective effect and increases survival in G. mellonella infected with S. aureus <sup>[1]</sup> . Antibacterial agent 207 (100 μg/mL, applied to the wound, twice a day) has robust anti-infective efficacy against S. aureus in mice skin infected with S. aureus <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.			

## REFERENCES

[1]. Wang L, et al. Design, synthesis, anti-infective potency and mechanism study of novel Ru-based complexes containing substituted adamantane as antibacterial agents. Eur J Med Chem. 2024 Apr 2;270:116378.

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

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