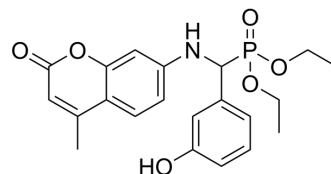


Antibacterial agent 126

Cat. No.:	HY-151925
Molecular Formula:	C ₂₁ H ₂₄ NO ₆ P
Molecular Weight:	417.39
Target:	Bacterial
Pathway:	Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Antibacterial agent 126 is a potent antibacterial agent. Antibacterial agent 126 reduces the burden of biofilm to avoid developing agent resistance. Antibacterial agent 126 disturbs the membrane integrity and leads to the leakage of intracellular materials. Antibacterial agent 126 increase in ROS and reactive nitrogen species (RNS) production ^[1] .
In Vitro	Antibacterial agent 126 (compound 6f) shows antibacterial activity with MIC values of 0.5, 4 µg/mL for staphylococcus aureus, escherichia coli ATCC 25922, respectively ^[1] . Antibacterial agent 126 (0-256 µg/mL; 0-8 h) shows low hemolytic activity to RBCs ^[1] . Antibacterial agent 126 (0.5, 1, 2, 4, 8 µg/mL) effectively disrupts the bacterial biofilm, decreases the biofilm viability and increases in protein leakage from bacterial cells interacting with molecule in a dose-dependent manner in staphylococcus aureus ^[1] . Antibacterial agent 126 (0.5, 1, 2, 4 µg/mL) increase in ROS and reactive nitrogen species (RNS) production in a dose dependent manner in staphylococcus aureus ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Yang XC, et al. Novel coumarin aminophosphonates as potential multitargeting antibacterial agents against Staphylococcus aureus. Eur J Med Chem. 2023 Jan 5;245(Pt 1):114891.

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

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